

			20						25					30			
Ser	Ser	Ala	Thr	Asn	Glu	Pro	Arg	Gly	Ala	Ser	Arg	Pro	Asn	Pro	Gln		
		35						40				45					
Glu	Phe	Thr	Tyr	Ser	Ser	Pro	Thr	Pro	Asp	Met	Glu	Glu	Leu	Gln	Pro		
	50					55					60						
Val	Tyr	Val	Asn	Val	Gly	Ser	Val	Asp	Val	Asp	Val	Val	Tyr	Ser	Gln		
65					70					75					80		
Val	Trp	Ser	Met	Gln	Gln	Pro	Glu	Ser	Ser	Ala	Asn	Ile	Arg	Thr	Leu		
				85					90					95			
Leu	Glu	Asn	Lys	Asp	Ser	Gln	Val	Ile	Tyr	Ser	Ser	Val	Lys	Lys	Ser		
			100					105					110		112		

*

<210> 1073
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1073

Met	Thr	Leu	Cys	Cys	Pro	Trp	Ala	Thr	Met	His	Pro	Ser	Thr	Val	Leu
1				5					10					15	
Arg	Met	Val	Trp	Ser	Leu	Arg	Ser	Arg	Ala	Arg	Arg	Trp	Gly	Ser	Val
			20					25					30		
Arg	Thr	Gly	Leu	Ser	Trp	Ser	Ser	Ser	Ser	Asp	Ser	Arg	Ile	Thr	Ser
		35					40					45			
Leu	Ser	Leu	*												
	50	51													

<210> 1074
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1074

Met	Phe	Ser	Arg	Leu	Tyr	Ala	Val	Cys	Met	Leu	Tyr	Met	Trp	Gly	Phe
1				5					10					15	
Val	Asp	Lys	Met	Cys	Val	Trp	Ser	Val	Met	Gln	Val	Cys	Tyr	Cys	Leu
			20					25					30		
Val	Phe	Val	Tyr	Val	Phe	Leu	Cys	Met	Val	Cys	Arg	Val	Arg	Ala	His
		35					40					45			
Asp	His	Ile	Gln	Ile	Leu	Asp	Pro	Tyr	Ser	Arg	Leu	Val	Leu	Ser	Arg
	50					55					60				
Leu	Pro	Arg	Leu	Glu	Thr	Gly	Lys	Asp	Ser	Ser	Ser	Leu	*		
65					70					75		77			

<210> 1075
 <211> 253
 <212> PRT
 <213> Homo sapiens

<400> 1075

```

Met Ser Ser Ser Pro Gly Leu Leu Phe Ser Ser Leu Ser His Leu Leu
 1      5      10      15
Leu Asn Ser Ser Thr Leu Ala Leu Leu Thr His Arg Leu Ser Gln Met
      20      25      30
Thr Cys Leu Gln Ser Leu Arg Leu Asn Arg Asn Ser Ile Gly Asp Val
      35      40      45
Gly Cys Cys His Leu Ser Glu Ala Leu Arg Ala Ala Thr Ser Leu Glu
      50      55      60
Glu Leu Asp Leu Ser His Asn Gln Ile Gly Asp Ala Gly Asp Gln His
      65      70      75      80
Leu Ala Thr Ile Leu Pro Gly Leu Pro Glu Leu Arg Lys Ile Asp Leu
      85      90      95
Ser Gly Asn Ser Ile Ser Ser Ala Gly Gly Val Gln Leu Ala Glu Ser
      100      105      110
Leu Val Leu Cys Arg Arg Leu Glu Leu Met Leu Gly Cys Asn Ala
      115      120      125
Leu Gly Asp Pro Thr Ala Leu Gly Leu Ala Gln Glu Leu Pro Gln His
      130      135      140
Leu Arg Val Leu His Leu Pro Phe Ser His Leu Gly Pro Asp Gly Ala
      145      150      155      160
Leu Ser Leu Ala Gln Asp Leu Asp Gly Ser Pro His Leu Glu Glu Ile
      165      170      175
Ser Leu Ala Glu Asn Asn Leu Ala Gly Gly Val Leu Arg Phe Cys Met
      180      185      190
Glu Leu Pro Leu Leu Arg Gln Ile Glu Leu Ser Trp Asn Leu Leu Gly
      195      200      205
Asp Glu Ala Ala Ala Glu Leu Ala Gln Val Leu Pro Gln Met Gly Arg
      210      215      220
Leu Lys Arg Val Glu Tyr Glu Gly Pro Gly Glu Glu Trp Asp Gly Leu
      225      230      235      240
Lys Gly Asp Leu His Pro Gly Asn Thr Lys Arg Pro Leu
      245      250      253

```

<210> 1076

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1076

```

Met Ser Asp Ile Ser Pro Leu Leu Tyr Glu Ile Trp Leu Gly Asp Thr
 1      5      10      15
Ser Ala Gly Phe Phe Thr Phe Cys Val Thr Val Leu His Val Leu Leu
      20      25      30
Leu Leu Ser Ser Val Leu His Phe Leu Cys Pro Arg Asp Thr Ser Val
      35      40      45
Ile Ser Pro Phe Ile Pro Pro Leu Thr Pro Pro Gln Ser Arg Leu *
      50      55      60      63

```

<210> 1077

<211> 147

<212> PRT

<213> Homo sapiens

<400> 1077
 Met Met Lys Ser Leu Arg Val Leu Leu Val Ile Leu Trp Leu Gln Leu
 1 5 10 15
 Ser Trp Val Trp Ser Gln Gln Lys Glu Val Glu Gln Asn Ser Gly Pro
 20 25 30
 Leu Ser Val Pro Glu Gly Ala Ile Ala Ser Leu Asn Cys Thr Tyr Ser
 35 40 45
 Asp Arg Gly Ser Gln Ser Phe Phe Trp Tyr Arg Gln Tyr Ser Gly Lys
 50 55 60
 Ser Pro Glu Leu Ile Met Ser Ile Tyr Ser Asn Gly Asp Lys Glu Asp
 65 70 75 80
 Gly Arg Phe Thr Ala Gln Leu Asn Lys Ala Ser Gln Tyr Val Ser Leu
 85 90 95
 Leu Ile Arg Asp Ser Gln Pro Ser Asp Ser Ala Thr Tyr Leu Cys Ala
 100 105 110
 Asp Tyr Ser Gly Asn Thr Pro Leu Val Phe Gly Lys Gly Thr Arg Leu
 115 120 125
 Ser Val Ile Ala Asn Ile Gln Asn Pro Asp Pro Ala Leu Tyr Gln Leu
 130 135 140
 Arg Asp Ser
 145 147

<210> 1078
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1078
 Met Phe Gln Gly Ser Asn Ile Leu Phe Leu Leu Pro Ser Pro Gly Ile
 1 5 10 15
 Thr Ser Ile Asn Asp Arg Thr Tyr Phe Leu Phe Val Met Arg Ser Asn
 20 25 30
 Trp Leu Phe Leu Leu Thr Cys Leu Ile Ala Phe Gln Lys Asn Asn Lys
 35 40 45
 Ser Leu Lys Leu Leu Lys *
 50 54

<210> 1079
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1079
 Met Ile Pro Ala Phe Gly Ile Phe Arg Leu Leu Ile Ile Ile Leu Ile
 1 5 10 15
 Ile Val Leu Asp Met Gly Phe Ala Leu Tyr Arg Arg Phe Phe Val Pro
 20 25 30
 Glu Asp Gly Ser Pro Val Ser Phe Ala Ala His Ile Ala Gly Gly Phe
 35 40 45
 Ala Gly Met Ser Ile Gly Tyr Thr Val Phe Ser Cys Phe Asp Lys Ala
 50 55 60

Leu Met Lys Asp Pro Arg Phe Trp Ile Ala Ile Ala Ala Tyr Leu Ala
 65 70 75 80
 Cys Val Leu Phe Ala Val Phe Phe Asn Ile Phe Leu Ser Pro Ala Asn
 85 90 95 96
 *

<210> 1080
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1080
 Met Leu Ser Ile Leu Leu Ala Thr Leu Thr Leu Ser Leu Lys Glu Lys
 1 5 10 15
 Arg Gly Glu Arg Ser Ile His Gln Pro Glu Pro Ser Glu Lys Ser Val
 20 25 30
 Cys Leu Pro Val Ser Gly Ala Asp Pro Phe Arg Gly Ser Arg Gly Arg
 35 40 45
 Gly Lys Glu Ile Arg Arg Glu Lys Asp Ile Gly Leu Leu Glu His Val
 50 55 60
 Gly Gln Glu Val Pro Arg Arg Ile Cys Glu Gln Leu Pro Asp Ser Lys
 65 70 75 80
 Ala Leu Ala Arg Pro Gln Asp Gly Pro Cys Leu Leu Asp Ile Arg Lys
 85 90 95
 Pro Lys Gly Gln Asn Lys Asn Thr Cys Leu Val Gly Glu Gly Ser Leu
 100 105 110
 Arg Gly His Gln Val Gly Gln Ile Pro Leu Val Thr His Leu Trp Arg
 115 120 125
 Leu Pro Gln Lys Cys *
 130 133

<210> 1081
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 1081
 Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile
 1 5 10 15
 Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn
 20 25 30
 Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr
 35 40 45
 Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe
 50 55 60
 Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala
 65 70 75 80
 Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn
 85 90 95
 Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser
 100 105 110
 Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys

```

      115              120              125
Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys
      130              135              140
His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val
      145              150              155              160
Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile
      165              170              175
Ser Ile Cys Ala Asp Ile His Val *
      180              184

```

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<210> 1082
<211> 285
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(285)
<223> Xaa = any amino acid or nothing

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      <400> 1082
Met Val Ile Ala Leu Ile Ile Phe Leu Arg Ser Pro Ala Met Ala Gly
      1              5              10              15
Gly Leu Phe Ala Ile Glu Arg Glu Phe Phe Glu Leu Gly Leu Tyr
      20              25              30
Asp Pro Gly Leu Gln Ile Trp Gly Gly Glu Asn Phe Glu Ile Ser Tyr
      35              40              45
Lys Ile Trp Gln Cys Gly Gly Lys Leu Leu Phe Xaa Pro Cys Ser Arg
      50              55              60
Val Gly His Ile Tyr Arg Leu Glu Gly Trp Gln Gly Asn Pro Pro Pro
      65              70              75              80
Ile Tyr Val Gly Ser Ser Pro Thr Leu Lys Asn Tyr Val Arg Val Val
      85              90              95
Glu Val Trp Trp Asp Glu Tyr Lys Asp Tyr Phe Tyr Ala Ser Arg Pro
      100              105              110
Glu Ser Gln Ala Leu Pro Tyr Gly Asp Ile Ser Glu Leu Lys Lys Phe
      115              120              125
Arg Glu Asp His Asn Cys Lys Ser Phe Lys Trp Phe Met Glu Glu Ile
      130              135              140
Ala Tyr Asp Ile Thr Ser His Tyr Pro Leu Pro Pro Lys Asn Val Asp
      145              150              155              160
Trp Gly Glu Ile Arg Gly Phe Glu Thr Ala Tyr Cys Ile Asp Ser Met
      165              170              175
Gly Lys Thr Asn Gly Gly Phe Val Glu Leu Gly Pro Cys His Arg Met
      180              185              190
Gly Gly Asn Gln Leu Phe Arg Ile Asn Glu Ala Asn Gln Leu Met Gln
      195              200              205
Tyr Asp Gln Cys Leu Thr Lys Gly Ala Asp Gly Ser Lys Val Met Ile
      210              215              220
Thr His Cys Asn Leu Asn Glu Phe Lys Glu Trp Gln Tyr Phe Lys Asn
      225              230              235              240
Leu His Arg Phe Thr His Ile Pro Ser Gly Lys Cys Leu Asp Arg Ser
      245              250              255
Glu Val Leu His Gln Val Phe Ile Ser Asn Cys Asp Ser Ser Lys Thr
      260              265              270
Thr Gln Lys Trp Glu Met Asn Asn Ile His Ser Val *
      275              280              284

```

<210> 1083
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1083
 Met Phe Trp Phe Leu Asn Ile Phe Ile Leu Ile Leu Ser Lys His Ser
 1 5 10 15
 Ser Lys Ser Leu Ser Leu Gln Leu Pro Glu Val Leu Leu Leu Phe Leu
 20 25 30
 Cys Gln Phe Cys Leu Arg Leu His Pro Val Arg Gly Leu Arg Leu His
 35 40 45
 Phe Lys Ala Lys Leu Ala Asn His His Val Ile Cys Ile Gly Leu Gly
 50 55 60
 Phe Phe Leu Phe Val Ser Val Leu *
 65 70 72

<210> 1084
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1084
 Met Ile Phe Gly Thr Asp Cys Cys Ala Leu Ser Lys Tyr Met Trp Ala
 1 5 10 15
 Phe Val Phe Phe Leu Ile Lys Ala Arg Trp Arg Glu Lys Asn Pro Cys
 20 25 30
 Phe Asp Asp Ser Leu Arg Pro Glu Gln Cys Leu Leu Asp Glu Gly Ser
 35 40 45
 Leu Glu Lys Arg Tyr Ser Met *
 50 55

<210> 1085
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1085
 Met Gln Ile Phe Leu Leu Leu Tyr Ala Leu Gly Arg Phe Val Leu Leu
 1 5 10 15
 Val Thr Phe Ser Pro Leu Val Leu Ser Leu Ser Tyr Pro Val Leu Val
 20 25 30
 Ser Phe Tyr Leu Arg Tyr Pro Ser Val Leu Phe Val Phe Leu His Asn
 35 40 45
 Val Val Ser Leu Val Phe Gly Tyr Pro Leu Gln Asn Gln Gln Gly Leu
 50 55 60
 Ile His Pro *
 65 67

<210> 1086
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1086
 Met Cys Pro Phe Met Pro Pro Pro Gly Leu Leu Arg Leu Phe Gln Ile
 1 5 10 15
 Val Phe Trp Val Glu His Pro Gly Ser Val Asn Pro Phe Glu Arg Ser
 20 25 30
 Thr Ile Ile Gly Arg Ser Ala Lys Leu Lys Lys Asp Leu Lys Ser His
 35 40 45
 Trp Glu Pro Gly Gln Gln Ala Leu Gln Gln Gly Leu Leu *
 50 55 60 61

<210> 1087
 <211> 294
 <212> PRT
 <213> Homo sapiens

<400> 1087
 Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
 1 5 10 15
 Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala
 20 25 30
 Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu
 35 40 45
 Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu
 50 55 60
 Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr
 65 70 75 80
 Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg
 85 90 95
 Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe
 100 105 110
 Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys
 115 120 125
 Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe
 130 135 140
 Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro
 145 150 155 160
 Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser
 165 170 175
 Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu
 180 185 190
 Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala
 195 200 205
 Gly Glu Leu Ala Gly Gln Glu Glu Glu Ala Leu Glu Gly Leu Glu
 210 215 220
 Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala
 225 230 235 240
 Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
 245 250 255

[illegible]

```
<210> 1088
<211> 477
<212> PRT
<213> Homo sapiens
```

<400> 1088															
Met 1	Gln	Trp	Lys	Val 5	Thr	Leu	Thr	Ser	Arg 10	Trp	Gly	Leu	Leu	Arg 15	His
Cys	Gln	Val	Leu	Ala 20	Gly	Leu	Leu	His 25	Leu	Gly	Asn	Ile	Gln	Phe 30	Ala
Ala	Ser	Glu	Asp	Glu 35	Ala	Gln	Pro 40	Cys	Gln	Pro	Met	Asp 45	Asp	Ala	Lys
Tyr	Ser 50	Val	Arg	Thr	Ala	Ala 55	Ser	Leu	Leu	Gly	Leu 60	Pro	Glu	Asp	Val
Leu 65	Leu	Glu	Met	Val 70	Gln	Ile	Lys	Thr	Ile	Arg 75	Ala	Gly	Arg	Gln	Gln 80
Gln	Val	Phe	Arg	Lys 85	Pro	Cys	Ala	Arg	Ala 90	Glu	Cys	Asp	Thr	Arg 95	Arg
Asp	Cys	Leu	Ala 100	Lys	Leu	Ile	Tyr 105	Ala	Arg	Leu	Phe	Asp 110	Trp	Leu	Val
Ser	Val	Ile 115	Asn	Ser	Ser	Ile	Cys 120	Ala	Asp	Thr	Asp 125	Ser	Trp	Thr	Thr
Phe 130	Ile	Gly	Leu	Leu	Asp	Val 135	Tyr	Gly	Phe	Glu	Ser 140	Phe	Pro	Asp	Asn
Ser 145	Leu	Glu	Gln	Leu	Cys 150	Ile	Asn	Tyr	Ala	Asn 155	Glu	Lys	Leu	Gln	Gln 160
His	Phe	Val	Ala 165	His	Tyr	Leu	Arg	Ala	Gln 170	Gln	Glu	Glu	Tyr	Ala 175	Val
Glu	Gly	Leu	Glu 180	Trp	Ser	Phe	Ile	Asn 185	Tyr	Gln	Asp	Asn 190	Gln	Pro	Cys
Leu	Asp	Leu 195	Ile	Glu	Gly	Ser	Pro 200	Ile	Ser	Ile	Cys 205	Ser	Leu	Ile	Asn
Glu	Glu 210	Cys	Arg	Leu	Asn 215	Arg	Pro	Ser	Ser	Ala 220	Ala	Gln	Leu	Gln	Thr
Arg 225	Ile	Glu	Thr	Ala 230	Leu	Ala	Gly	Ser	Pro	Cys 235	Leu	Gly	His	Asn 240	Lys
Leu	Ser	Arg	Glu 245	Pro	Ser	Phe	Ile	Val	Val 250	His	Tyr	Ala	Gly	Pro 255	Val
Arg	Tyr	His 260	Thr	Ala	Gly	Leu	Val	Glu 265	Lys	Asn	Lys	Asp 270	Pro	Ile	Pro
Pro	Glu 275	Leu	Thr	Arg	Leu	Leu	Gln 280	Gln	Ser	Gln	Asp 285	Pro	Leu	Leu	Met
Gly	Leu 290	Phe	Pro	Thr	Asn 295	Pro	Lys	Glu	Lys	Thr 300	Gln	Glu	Glu	Pro	Pro
Gly 305	Gln	Ser	Arg	Ala 310	Pro	Val	Leu	Thr	Val	Val 315	Ser	Lys	Phe	Lys	Ala 320
Ser	Leu	Glu	Gln 325	Leu	Leu	Gln	Val	Leu	His 330	Ser	Thr	Thr	Pro	His 335	Tyr
Ile	Arg	Cys	Ile	Met	Pro	Asn	Ser	Gln	Gly	Gln	Ala	Gln	Thr	Phe	Leu

```

          340          345          350
Gln Glu Glu Val Leu Ser Gln Leu Glu Ala Cys Gly Leu Val Glu Thr
          355          360          365
Ile His Ile Ser Ala Ala Gly Phe Pro Ile Arg Val Ser His Arg Asn
          370          375          380
Phe Val Glu Arg Tyr Lys Leu Leu Arg Arg Leu His Pro Cys Thr Ser
385          390          395          400
Ser Gly Pro Asp Ser Pro Tyr Pro Ala Lys Gly Leu Pro Glu Trp Cys
          405          410          415
Pro His Ser Glu Glu Ala Thr Leu Glu Pro Leu Ile Gln Asp Ile Leu
          420          425          430
His Thr Leu Pro Val Leu Thr Gln Ala Ala Ala Ile Thr Gly Asp Ser
          435          440          445
Ala Glu Ala Met Pro Ala Pro Met His Cys Gly Arg Thr Lys Val Phe
450          455          460
Met Thr Asp Ser Met Leu Glu Leu Leu Glu Cys Gly Ala
465          470          475          477

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<210> 1089
 <211> 66
 <212> PRT
 <213> Homo sapiens

```

          <400> 1089
Met Ala Ala Gly Val Ser Ser Val Leu Leu Leu Leu Phe Thr Leu Met
  1          5          10          15
Glu Ser Gly Leu Lys His Arg Val Trp Glu Ser Trp Gln Leu Phe Thr
          20          25          30
Ser Trp Leu Ala Phe Cys Ser Pro Ser Phe Ser Val Val Phe Thr Cys
          35          40          45
Ser Tyr Ser Leu Ser Ser Trp Gly Leu Lys Gly Ile Ser Ser Arg Thr
          50          55          60
Arg *
65

```

<210> 1090
 <211> 185
 <212> PRT
 <213> Homo sapiens

```

          <400> 1090
Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
  1          5          10          15
Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
          20          25          30
Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
          35          40          45
Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
          50          55          60
Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
          65          70          75          80
Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu
          85          90          95

```

```

Pro Ala Val Glu Val Gln Ser Ala Ile Arg Met Asn Lys Asn Arg Ile
      100      105      110
Asn Asn Ala Phe Phe Leu Asn Asp Gln Thr Leu Glu Phe Leu Lys Ile
      115      120      125
Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro Ile Trp Ile
      130      135      140
Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Val Ala Ile Ala Leu
145      150      155      160
Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Lys Asn Lys Glu Pro
      165      170      175
Ser Glu Val Asp Asp Ala Glu Glu *
      180      184

```

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<210> 1091
<211> 47
<212> PRT
<213> Homo sapiens

```

```

<400> 1091
Met Leu Gly Gly Asn Phe Leu Met Phe Leu Pro Pro Leu Gln Arg Leu
 1      5      10      15
Cys Ser Asn Leu Leu Ser Tyr Val Ile Pro Asn Asp Phe Ser Val Met
      20      25      30
Ser Cys Phe Ile Lys Ala Ser Leu Asn Tyr Thr Leu Leu Ile *
      35      40      45      46

```

```

<210> 1092
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1092
Met Val Leu Trp Asn Leu Met Leu His Ser Leu Ser Ala Val Thr Tyr
 1      5      10      15
Pro Pro Asp Leu Val Ser Trp Asn Leu His Phe Lys Gln Asn Pro Asp
      20      25      30
His Ser Pro Leu Pro Gln Leu Thr Trp Glu Val Leu Pro *
      35      40      45

```

```

<210> 1093
<211> 64
<212> PRT
<213> Homo sapiens

```

```

<400> 1093
Met Thr Val Ser Phe Cys Cys Cys Trp Ile Leu Ala Val Leu Pro Ser
 1      5      10      15
Pro Pro Leu Tyr Gln Asp Leu Val Gly Ser Lys Leu Glu Ile Gln Ala
      20      25      30
Ala Gly Asp Pro Met Pro Ala Ala Ser Arg Leu Phe His Glu Arg Gln

```


35 40 45
 Ser Leu Pro Gly Ala Pro Ala Thr Ser Ala Ser Pro Ser Val Leu *
 50 55 60 63

<210> 1094
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1094
 Met His Phe Leu Ala Thr Phe Ala Leu Phe Phe Ile Phe Gly Val Phe
 1 5 10 15
 Phe Leu Phe Ala Val Leu Thr Asn Leu Leu Leu Ala Glu Glu Val Asn
 20 25 30
 Ile Arg Gly Gly Asn Phe Leu Gly Ser Phe Leu Val His Thr Leu Phe
 35 40 45
 Leu Asp Gln Val Pro Gly Glu Ile Thr His Asp Ser His Leu Val Leu
 50 55 60
 Ala Ile Thr Ile Asn Thr Ala Ser Pro Lys Phe Ser Ser Ser Ile Phe
 65 70 75 80
 Phe Tyr Gln Leu *
 84

<210> 1095
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1095
 Met Ala Ser His Gly Glu Glu Asp Arg His Trp Leu Arg Ala Cys Thr
 1 5 10 15
 Trp Ile Trp Ala Leu Ser Leu Thr Leu Ser Val Ser Ser Ser Val Gly
 20 25 30
 Trp Arg Arg Gly Gly Cys Arg Trp Leu Gly Arg Arg Asn Ala Thr Val
 35 40 45
 Pro Arg Asn Ser Pro His Gly Thr Ser Cys Leu His Cys Val Leu Asp
 50 55 60
 Ile Pro Ala Lys Cys Gly Arg Lys Arg Ser Gly Glu Gly Thr Phe Gln
 65 70 75 80
 Ser Leu Leu Leu Phe Cys Thr Ala *
 85 88

<210> 1096
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1096
 Met Phe Val Ile Ala Phe Leu Ser Pro Leu Ser Leu Ile Phe Leu Ala
 1 5 10 15

```

Lys Phe Leu Lys Lys Ala Asp Thr Arg Asp Ser Arg Gln Ala Cys Leu
      20      25      30
Ala Ala Ser Leu Ala Leu Ala Leu Asn Gly Val Phe Thr Asn Thr Ile
      35      40      45
Lys Leu Ile Val Gly Arg Pro Arg Pro Asp Phe Phe Tyr Arg Cys Phe
      50      55      60
Pro Asp Gly Leu Ala His Ser Asp Leu Met Cys Thr Gly Asp Lys Asp
      65      70      75      80
Val Val Asn Glu Gly Arg Lys Ser Phe Pro Ser Gly His Ser Ser Phe
      85      90      95
Ala Phe Ala Gly Leu Ala Phe Ala Ser Phe Tyr Leu Ala Gly Lys Leu
      100      105      110
His Cys Phe Thr Pro Gln Gly Arg Gly Lys Ser Trp Arg Phe Cys Ala
      115      120      125
Phe Leu Ser Pro Leu Leu Phe Ala Ala Val Ile Ala Leu Ser Arg Thr
      130      135      140
Cys Asp Tyr Lys His His Trp Gln Gly Pro Phe Lys Trp *
145      150      155      157

```

```

<210> 1097
<211> 88
<212> PRT
<213> Homo sapiens

```

```

<400> 1097
Met Ile Thr Thr Ser Leu Lys Ser Ser Ser Arg Leu Cys Cys Phe Arg
  1      5      10      15
Arg Ser Ile Phe Phe Thr Ala Thr Cys Phe Pro Val Cys Phe Ser Val
      20      25      30
Ala Met His Thr Met Pro Val Glu Pro Ser Pro Ile Leu Ile Lys Leu
      35      40      45
Ala Lys Tyr Ser Leu Gly Ser Pro Gly Leu Thr Thr Ser Cys Arg Ala
      50      55      60
Ala Arg Asn Cys Ser Trp Asp Thr Leu Glu Gly Cys Trp Ser Glu Glu
      65      70      75      80
Glu Pro Gln Leu Gly Gly Gly *
      85      87

```

```

<210> 1098
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1098
Met Met Ser Gly Trp Leu Leu Arg Ala Ala Ile Cys Arg Gly Leu Leu
  1      5      10      15
Ser Ser Glu Ser Leu Thr Phe Thr Ser Ala Pro His Ser Ile Ser Ile
      20      25      30
Ala Val Thr Cys Arg Asp Gly Asn Leu Gln Thr Gly Tyr Arg Pro Thr
      35      40      45
His Val Val Phe Leu Ser Thr Ala Arg *
      50      55      57

```

<210> 1099
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1099
 Met Ala Ser Glu Pro Cys Trp Trp Ala Gly Met Leu Pro Cys Ala Cys
 1 5 10 15
 Ala Gly Leu Arg Arg Cys Ser His Ser Arg Phe Leu Gln Arg Gly His
 20 25 30
 Gly Leu His Ser Leu Met Gly Ser Leu Pro Ala Pro Ile Ser Pro Pro
 35 40 45
 Trp Thr His Pro Trp Gly Ile Ile Leu Pro Trp Pro Ile Arg Gly His
 50 55 60
 Pro Ser Val Pro Ile Arg Leu *
 65 70 71

<210> 1100
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1100
 Met Ser Phe Phe Leu Ile Leu Gly Val Gly Ser Cys Leu Ser Tyr Ser
 1 5 10 15
 Leu Val Pro Leu Ile Ile Leu Ser Phe Cys His Phe Tyr Pro Glu Ser
 20 25 30
 Val Gly Cys Pro Asp Ala Pro Ser Pro Arg Val Arg Gly Arg Val
 35 40 45 47

<210> 1101
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 1101
 Met Arg Pro Leu Lys Pro Gly Ala Pro Leu Pro Ala Leu Phe Leu Leu
 1 5 10 15
 Ala Leu Ala Leu Ser Pro His Gly Ala His Gly Arg Pro Arg Gly Arg
 20 25 30
 Arg Gly Ala Arg Val Thr Asp Lys Glu Pro Lys Pro Leu Leu Phe Leu
 35 40 45
 Pro Ala Ala Gly Ala Gly Arg Thr Pro Ser Gly Ser Arg Ser Ala Glu
 50 55 60
 Ile Phe Pro Arg Asp Ser Asn Leu Lys Asp Lys Phe Ile Lys His Phe
 65 70 75 80
 Thr Gly Pro Val Thr Phe Ser Pro Glu Cys Ser Lys His Phe His Arg
 85 90 95
 Leu Tyr Tyr Asn Thr Arg Glu Cys Ser Thr Pro Ala Tyr Tyr Lys Arg
 100 105 110

Cys Ala Arg Leu Leu Thr Arg Leu Ala Val Ser Pro Leu Cys Ser Gln
 115 120 125
 Thr *
 129

<210> 1102
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 1102
 Met Gln Phe Val Leu Leu Arg Thr Leu Ala Tyr Ile Pro Thr Pro Ile
 1 5 10 15
 Tyr Phe Gly Ala Val Ile Asp Thr Thr Cys Met Leu Trp Gln Gln Glu
 20 25 30
 Cys Gly Val Gln Gly Ser Cys Trp Glu Tyr Asn Val Thr Ser Phe Arg
 35 40 45
 Phe Val Tyr Phe Gly Leu Ala Ala Val Leu Lys Tyr Val Gly Cys Ile
 50 55 60
 Phe Ile Leu Leu Ala Trp Tyr Ser Ile Lys Asp Thr Glu Asp Glu Gln
 65 70 75 80
 Pro Arg Leu Arg Gln Lys Lys Ile Cys Leu Ser Thr Leu Ser Asp Thr
 85 90 95
 Met Thr Gln Pro Asp Ser Ala Gly Val Val Ser Cys Pro Leu Phe Thr
 100 105 110
 Pro Asp Gly Glu Ile His Lys Lys Thr Gly Leu Arg Lys Arg Asp Pro
 115 120 125
 Gly Gly Thr Thr Glu Pro Thr Pro Gly Pro Leu Arg Lys Arg Pro Leu
 130 135 140
 Cys Thr Leu Glu Ala Pro Arg Leu Pro Asn Lys Ala Pro Phe Thr Leu
 145 150 155 160
 Glu Leu Ala Leu Leu Arg Val Arg Leu *
 165 169

<210> 1103
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1103
 Met Leu Ile Ile Phe Asn Ala Val Trp Val Arg Cys Leu Lys Pro Lys
 1 5 10 15
 Ile Pro Ala Arg Pro Thr Thr Asn Asp Thr Met Ile Ser Lys Thr Lys
 20 25 30
 Gln His Thr Gln Tyr Thr Ser Tyr Ala Pro Ser Trp Pro Trp Leu Gly
 35 40 45
 Pro Ala Ala Cys Gln His Gly Pro Leu Ile Ser His Thr Pro
 50 55 60 62

<210> 1104
 <211> 83

<212> PRT

<213> Homo sapiens

<400> 1104

```

Met Lys Gln Leu Ser Pro Leu Pro Leu Pro Trp Val Leu Cys Phe Leu
 1          5          10          15
Trp Lys Pro Ser Lys Leu Ser Val Leu Ser Phe Ala Ser Pro Pro Ser
          20          25          30
Thr Lys Pro Ser Gln Gln Ala Gly Leu Val Cys Ser Leu Ile Arg Val
          35          40          45
Ser Thr Ser Ser Thr Pro Ala Cys Thr Phe Tyr Leu Pro Val Asn Ala
          50          55          60
Lys Cys Arg Ser Cys Pro Leu Asn Asn Pro Pro Trp Glu Val Pro Trp
 65          70          75          80
Ile Asn *
      82

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<210> 1105

<211> 124

<212> PRT

<213> Homo sapiens

<400> 1105

```

Met Val Phe Thr Val Thr Leu Lys Leu Ala Leu Asp Thr His Tyr Trp
 1          5          10          15
Thr Trp Ile Asn His Phe Val Ile Trp Gly Ser Leu Leu Phe Tyr Val
          20          25          30
Val Phe Ser Leu Leu Trp Gly Gly Val Ile Trp Pro Phe Leu Asn Tyr
          35          40          45
Gln Arg Met Tyr Tyr Val Phe Ile Gln Met Leu Ser Ser Gly Pro Ala
          50          55          60
Trp Leu Ala Ile Val Leu Val Thr Ile Ser Leu Leu Pro Asp Val
 65          70          75          80
Leu Lys Lys Val Leu Cys Arg Gln Leu Trp Pro Thr Ala Thr Glu Arg
          85          90          95
Val Gln Thr Lys Ser Gln Cys Leu Ser Val Glu Gln Ser Thr Ile Phe
          100          105          110
Met Leu Ser Gln Thr Ser Ser Ser Leu Ser Phe *
          115          120          123

```

<210> 1106

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1106

```

Met Ser Phe Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu
 1          5          10          15
Val Gln Gln Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu
          20          25          30
Val Leu Met Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser
          35          40          45

```

```

Leu Glu Ser Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile
  50          55          60
Leu Gln Asn Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly
  65          70          75          80
His Pro Gln Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu
          85          90          95
Leu Phe Pro Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg
          100          105          110
Val Leu Leu Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp
          115          120          125
Leu Ser Leu Leu Pro Pro Arg Ala Ala Thr Leu Asp Pro Gly Tyr Tyr
          130          135          140
Thr Tyr Arg Asn Phe Leu Lys Ile Glu Val Ser Gln Ser His Pro Ala
          145          150          155          160
Met Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro
          165          170          175
Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp
          180          185          190
Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala
          195          200          205
Arg Pro Gly Ala Ser Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr
          210          215          220
Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu
          225          230          235          240
Gly Ala Asn Gly Ala Gln Pro *
          245          247

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<210> 1107
<211> 121
<212> PRT
<213> Homo sapiens

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<400> 1107
Met Met Leu Ala Phe Thr Met Trp Asn Pro Trp Ile Ala Met Cys Leu
  1          5          10          15
Leu Gly Leu Ser Tyr Ser Leu Leu Ala Cys Ala Leu Trp Pro Met Val
          20          25          30
Ala Phe Val Val Pro Glu His Gln Leu Gly Thr Ala Tyr Gly Phe Met
          35          40          45
Gln Ser Ile Gln Asn Leu Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly
          50          55          60
Met Ile Leu Asp Ser Arg Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile
          65          70          75          80
Ala Cys Val Ser Leu Ser Leu Leu Ser Val Val Leu Leu Tyr Leu Val
          85          90          95
Asn Arg Ala Gln Gly Gly Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu
          100          105          110
Glu Ile Lys Phe Ser His Thr Glu *
          115          120

```

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<210> 1108
<211> 53
<212> PRT
<213> Homo sapiens

```

<400> 1108
 Met Phe Lys Asn Thr Ser Gly Tyr Thr Glu Arg Val Ala Val Trp Leu
 1 5 10 15
 Gly Val Glu Ile Phe Cys Leu Leu Met Met Ser Ser Val Leu Val Pro
 20 25 30
 Leu Phe Tyr Phe Leu Met Leu Phe Gly Asn Phe Leu Gln Asn Leu Ser
 35 40 45
 Leu Gly Ser Arg *
 50 52

<210> 1109
 <211> 259
 <212> PRT
 <213> Homo sapiens

<400> 1109
 Met His Val Val Ile Val Leu Lys Ala Leu Val Ala Val Gln Ile Leu
 1 5 10 15
 Leu Ser Ile Lys Glu Tyr Thr Leu Glu Arg Asn His Met His Val Ile
 20 25 30
 Ser Val Ile Lys Val Leu Val Lys Ala Gln Thr Ser Leu Asn Ile Arg
 35 40 45
 Glu Tyr Thr Leu Val Lys Ser Leu Ile Ile Ala Ile Val Val Arg Lys
 50 55 60
 Pro Ser Val Arg Val Leu Thr Leu Phe Phe Ile Arg Glu Phe Thr Leu
 65 70 75 80
 Glu Lys Asn Tyr Tyr Leu Cys Thr Gln Cys Ser Lys Ser Phe Ser Gln
 85 90 95
 Ile Ser Asp Leu Ile Lys His Gln Arg Ile His Thr Gly Glu Lys Pro
 100 105 110
 Tyr Lys Cys Ser Glu Cys Arg Lys Ala Phe Ser Gln Cys Ser Ala Leu
 115 120 125
 Thr Leu His Gln Arg Ile His Thr Gly Lys Lys Pro Asn Pro Cys Asp
 130 135 140
 Glu Cys Gly Lys Ser Phe Ser Arg Arg Ser Asp Leu Ile Asn His Gln
 145 150 155 160
 Lys Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asp Ala Cys Gly Lys
 165 170 175
 Ala Phe Ser Thr Cys Thr Asp Leu Ile Glu His Gln Lys Thr His Ala
 180 185 190
 Glu Glu Lys Pro Tyr Gln Cys Val Gln Cys Ser Arg Ser Cys Ser Gln
 195 200 205
 Leu Ser Glu Leu Thr Ile His Glu Glu Val His Cys Gly Glu Asp Ser
 210 215 220
 Gln Asn Val Met Asn Val Arg Lys Pro Leu Val Cys Thr Pro Thr Leu
 225 230 235 240
 Phe Ser Thr Arg Asp Thr Val Pro Glu Lys Asn Leu Met Asn Ala Val
 245 250 255
 Asp Tyr *
 258

<210> 1110

<211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1110
 Met Thr Cys Ser Leu Leu Ser Leu Leu Asp Ala Val Cys Ser Ser Phe
 1 5 10 15
 Val Gln Ala Phe Cys Ser Arg Asp Pro Glu Arg Trp Pro Ala Ile Ser
 20 25 30
 Pro His Ser Leu Ser Gly Ala Phe Tyr Phe Leu Asn Val Cys *
 35 40 45 46

<210> 1111
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 1111
 Met Ser Leu Arg Ala Pro Ser Val Arg Ile Phe Val Tyr Leu Leu Phe
 1 5 10 15
 Arg Leu His Thr Gln Arg Gly Leu Leu Ala Gly Arg Arg Gln Trp Gly
 20 25 30
 Pro Cys Pro Leu Ser Phe Ser His Phe Leu His Leu Ser Val Leu Ser
 35 40 45
 Cys Ser Thr Gln Ile Tyr Thr Glu Gly Ser Trp Pro Gly Trp Ala Ser
 50 55 60
 Leu Gly Ala Pro Ser Val His Trp Ala Arg Phe Pro Cys Trp Leu Gln
 65 70 75 80
 Ala Met Gly Ser Phe Ser Pro Leu Cys Pro Ser Cys *
 85 90 92

<210> 1112
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1112
 Met Met Pro Thr Asn Leu Ala His Leu Val Phe Trp Gln Ala Leu Leu
 1 5 10 15
 Ala Ser Gly Arg Phe Ser Leu Met Glu His Tyr Pro Pro Asn Val Gln
 20 25 30
 Ser Asn Arg Gly Ile Thr His Tyr Met Leu Pro Arg Gly Tyr Ile Leu
 35 40 45
 Gly Leu Leu Tyr Ser Ser Ala Gly Asn Thr Gly Thr Ser Arg Pro Arg
 50 55 60
 Arg Thr His Tyr Gly Thr *
 65 70

<210> 1113
 <211> 47

<212> PRT
 <213> Homo sapiens

<400> 1113
 Met Tyr Leu Val Lys Gly Leu Leu Ile Gly Leu His Ser Ile Leu Leu
 1 5 10 15
 Cys Leu Arg Glu Gln Gly Gly Leu Arg Arg Val Glu Arg Asp Glu Gly
 20 25 30
 Thr Ala Ser Trp Tyr Ser Ser Gln Asn Thr Tyr Asn Ile Tyr *
 35 40 45 46

<210> 1114
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1114
 Met Thr Val Leu Ser Phe Gln Tyr Glu Tyr Leu Ile Phe Leu Leu Thr
 1 5 10 15
 Ser Leu Thr Thr Ile Tyr Asn Thr Thr Leu Ser Arg Ser Gly Asp Gly
 20 25 30
 Arg Arg Thr Cys Leu Val Phe Asn Leu Arg Glu Lys Val Phe Cys Phe
 35 40 45
 Ser Thr Leu Gly Ile Ile *
 50 54

<210> 1115
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1115
 Met Asn Val Ile Cys Leu Thr Leu Cys Leu Val Ser Ser Lys Cys Ser
 1 5 10 15
 Val Gly Gly Thr Ala Ser Phe Val Leu Cys Phe Ser Leu Pro Val
 20 25 30
 Ser Ser Arg Arg Arg Ala Phe Gln Glu Ser Gln Gly Trp Thr Glu Pro
 35 40 45
 Arg Gly Gly Pro Ser Gly Leu Pro His Thr Glu Pro Gly Phe Met Ala
 50 55 60
 Ser Ala Ala Thr Arg Gly Leu Ser Gly Cys Gly Ser Gln Ala Ala Val
 65 70 75 80
 Leu Thr *
 82

<210> 1116
 <211> 145
 <212> PRT
 <213> Homo sapiens

```

<400> 1116
Met Val Leu Leu Val Val Gly Asn Leu Val Asn Trp Ser Phe Ala Leu
 1          5          10          15
Phe Gly Leu Ile Tyr Arg Pro Arg Asp Phe Ala Ser Tyr Met Leu Gly
          20          25          30
Ile Phe Ile Cys Asn Leu Leu Leu Tyr Leu Ala Phe Tyr Ile Ile Met
          35          40          45
Lys Leu Arg Ser Ser Glu Lys Val Leu Pro Val Pro Leu Phe Cys Ile
          50          55          60
Val Ala Thr Ala Val Met Trp Ala Ala Ala Leu Tyr Phe Phe Phe Gln
          65          70          75          80
Asn Leu Ser Ser Trp Glu Gly Thr Pro Ala Glu Ser Arg Glu Lys Asn
          85          90          95
Arg Glu Cys Ile Leu Leu Asp Phe Phe Asp Asp His Asp Ile Trp His
          100          105          110
Phe Leu Ser Ala Thr Ala Leu Phe Phe Ser Phe Leu Asp Leu Leu Thr
          115          120          125
Leu Asp Asp Asp Leu Asp Val Val Arg Arg Asp Gln Ile Pro Val Phe
          130          135          140          144
*
```

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<210> 1117
<211> 139
<212> PRT
<213> Homo sapiens
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<400> 1117
Met Gly Asp Phe Ala Gly Val Asp Phe Val Phe Leu Val Val Cys Phe
 1          5          10          15
Ala Gln Arg Gln Gly Ala Ala Glu Ala Val Gly Ala Val Leu Ala Val
          20          25          30
Leu Leu Cys Asp Thr Leu Leu Gly Val Thr Arg Leu Glu Gly Val Ile
          35          40          45
His Leu Pro Leu Tyr Phe Gly Leu Ser Gly Ile Glu Val Ile Gln Gln
          50          55          60
Ala His Asn Arg Gly Ser Ser Arg Phe Gln Leu Leu Ile Arg Trp Arg
          65          70          75          80
Glu Asp Glu Asp Arg Trp Cys Ser His Ser Ser Phe Asp Val His Leu
          85          90          95
Gly Pro Leu Ala Glu Arg Pro His Val Ser Thr Gln Leu Leu Thr Val
          100          105          110
Ile Ser Cys Lys Ile Phe Arg Leu Gln Ala Thr Asp Cys Glu Ser Lys
          115          120          125
Phe Cys Pro Arg Ser Ser Ala Ala Glu Pro *
          130          135          138
```

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<210> 1118
<211> 194
<212> PRT
<213> Homo sapiens
```

<400> 1118
 Met Cys Leu Leu Phe Leu Leu Pro Arg Phe Pro Val Ser Trp Arg Ala
 1 5 10 15
 Gly Val Asp Gly Ala Ala Pro Ser Ser Gln Asp Leu Trp Arg Ile Arg
 20 25 30
 Ser Pro Cys Gly Asp Cys Glu Gly Phe Asp Val His Ile Met Asp Asp
 35 40 45
 Met Ile Lys Arg Ala Leu Asp Phe Arg Glu Ser Arg Glu Ala Glu Pro
 50 55 60
 His Pro Leu Trp Glu Tyr Pro Cys Arg Ser Leu Ser Glu Pro Trp Gln
 65 70 75 80
 Ile Leu Thr Phe Asp Phe Gln Gln Pro Val Pro Leu Gln Pro Leu Cys
 85 90 95
 Ala Glu Gly Thr Val Glu Leu Lys Arg Pro Gly Gln Ser His Ala Ala
 100 105 110
 Val Leu Trp Met Glu Tyr His Leu Thr Pro Glu Cys Thr Leu Ser Thr
 115 120 125
 Gly Leu Leu Glu Pro Ala Asp Pro Glu Gly Gly Cys Cys Trp Asn Pro
 130 135 140
 His Cys Lys Gln Ala Val Tyr Phe Phe Ser Pro Ala Pro Asp Pro Arg
 145 150 155 160
 Ala Leu Leu Gly Gly Pro Arg Thr Val Ser Tyr Ala Val Glu Phe His
 165 170 175
 Pro Asp Thr Gly Asp Ile Ile Met Glu Phe Arg His Ala Asp Thr Pro
 180 185 190
 Asp *
 193

<210> 1119
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1119
 Met Leu Val Leu Leu Pro Arg Ser Lys Ala Met Pro Leu Leu Ser Val
 1 5 10 15
 Asn Val Thr Leu Ala Phe Phe Pro Arg Asn Lys Glu Ile Val Lys Tyr
 20 25 30
 Leu Leu Asn Gln Gly Ala Asp Val Thr Leu Arg Ala Lys Asn Gly Tyr
 35 40 45
 Thr Ala Phe Asp Leu Val Met Leu Leu Asn Asp Pro Asp Ile Phe Gly
 50 55 60
 Gly Glu Leu Ile Gly Phe Leu Ser Val Val Thr Glu Leu Val Arg Leu
 65 70 75 80
 Leu Ala Ser Val Phe Met Gln Val Asn Lys Asp Ile Gly Arg Arg Ser
 85 90 95
 His Gln Leu Pro Leu Pro His Ser Lys Val Pro Thr Ala Leu Glu His
 100 105 110
 Pro Ser Ala Ala Arg *
 115 117

<210> 1120
 <211> 842
 <212> PRT

<213> Homo sapiens

<400> 1120

```

Met Leu Trp Gly Ser Gly Lys Cys Lys Ala Leu Thr Lys Phe Lys Phe
 1           5           10           15
Val Phe Phe Leu Arg Leu Ser Arg Ala Gln Gly Gly Leu Phe Glu Thr
      20           25           30
Leu Cys Asp Gln Leu Leu Asp Ile Pro Gly Thr Ile Arg Lys Gln Thr
      35           40           45
Phe Met Ala Met Leu Leu Lys Leu Arg Gln Arg Val Leu Phe Leu Leu
      50           55           60
Asp Gly Tyr Asn Glu Phe Lys Pro Gln Asn Cys Pro Glu Ile Glu Ala
      65           70           75           80
Leu Ile Lys Glu Asn His Arg Phe Lys Asn Met Val Ile Val Thr Thr
      85           90           95
Thr Thr Glu Cys Leu Arg His Ile Arg Gln Phe Gly Ala Leu Thr Ala
      100          105          110
Glu Val Gly Asp Met Thr Glu Asp Ser Ala Gln Ala Leu Ile Arg Glu
      115          120          125
Val Leu Ile Lys Glu Leu Ala Glu Gly Leu Leu Leu Gln Ile Gln Lys
      130          135          140
Ser Arg Cys Leu Arg Asn Leu Met Lys Thr Pro Leu Phe Val Val Ile
      145          150          155          160
Thr Cys Ala Ile Gln Met Gly Glu Ser Glu Phe His Ser His Thr Gln
      165          170          175
Thr Thr Leu Phe His Thr Phe Tyr Asp Leu Leu Ile Gln Lys Asn Lys
      180          185          190
His Lys His Lys Gly Val Ala Ala Ser Asp Phe Ile Arg Ser Leu Asp
      195          200          205
His Cys Gly Tyr Leu Ala Leu Glu Gly Val Phe Ser His Lys Phe Asp
      210          215          220
Phe Glu Leu Gln Asp Val Ser Ser Val Asn Glu Asp Val Leu Leu Thr
      225          230          235          240
Thr Gly Leu Leu Cys Lys Tyr Thr Ala Gln Arg Phe Lys Pro Lys Tyr
      245          250          255
Lys Phe Phe His Lys Ser Phe Gln Glu Tyr Thr Ala Gly Arg Arg Leu
      260          265          270
Ser Ser Leu Leu Thr Ser His Glu Pro Glu Glu Val Thr Lys Gly Asn
      275          280          285
Gly Tyr Leu Gln Lys Met Val Ser Ile Ser Asp Ile Thr Ser Thr Tyr
      290          295          300
Ser Ser Leu Leu Arg Tyr Thr Cys Gly Ser Ser Val Glu Ala Thr Arg
      305          310          315          320
Ala Val Met Lys His Leu Ala Ala Val Tyr Gln His Gly Cys Leu Leu
      325          330          335
Gly Leu Ser Ile Ala Lys Arg Pro Leu Trp Arg Gln Glu Ser Leu Gln
      340          345          350
Ser Val Lys Asn Thr Thr Glu Gln Glu Ile Leu Lys Ala Ile Asn Ile
      355          360          365
Asn Ser Phe Val Glu Cys Gly Ile His Leu Tyr Gln Glu Ser Thr Ser
      370          375          380
Lys Ser Ala Leu Ser Gln Glu Phe Glu Ala Phe Phe Gln Gly Lys Ser
      385          390          395          400
Leu Tyr Ile Asn Ser Gly Asn Ile Pro Asp Tyr Leu Phe Asp Phe Phe
      405          410          415
Glu His Leu Pro Asn Cys Ala Ser Ala Leu Asp Phe Ile Lys Leu Gly
      420          425          430
Phe Tyr Gly Gly Ala Met Ala Ser Trp Glu Lys Ala Ala Glu Asp Thr

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<210> 1121
<211> 90
<212> PRT
<213> Homo sapiens
```

<400> 1121

```

Met Gly Leu Phe Phe Phe Phe Ser Gly Val Gly Ser Phe Val Gly Ser
 1          5          10          15
Gly Leu Leu Ala Leu Val Ser Ile Lys Ala Ile Gly Trp Met Ser Ser
          20          25          30
His Thr Asp Phe Gly Asn Ile Asn Gly Cys Tyr Leu Asn Tyr Tyr Phe
          35          40          45
Phe Leu Leu Ala Ala Ile Gln Gly Ala Thr Leu Leu Leu Phe Leu Ile
          50          55          60
Ile Ser Val Lys Tyr Asp His His Arg Asp His Gln Arg Ser Arg Ala
          65          70          75          80
Asn Gly Val Pro Thr Ser Arg Arg Ala *
          85          89

```

<210> 1122

<211> 129

<212> PRT

<213> Homo sapiens

<400> 1122

```

Met Phe Leu Leu Phe Trp Phe Ile Leu Ser Glu Gly Cys Pro Leu Leu
 1          5          10          15
Glu Gln Leu Asn Ile Ser Trp Cys Asp Gln Val Thr Lys Asp Gly Ile
          20          25          30
Gln Ala Leu Val Arg Gly Cys Gly Gly Leu Lys Ala Leu Phe Leu Lys
          35          40          45
Gly Cys Thr Gln Leu Glu Asp Glu Ala Leu Lys Tyr Ile Gly Ala His
          50          55          60
Cys Pro Glu Leu Val Thr Leu Asn Leu Gln Thr Cys Leu Gln Ile Thr
          65          70          75          80
Asp Glu Gly Leu Ile Thr Ile Cys Arg Gly Cys His Lys Leu Gln Ser
          85          90          95
Leu Cys Ala Ser Gly Cys Ser Asn Ile Thr Asp Ala Ile Leu Asn Ala
          100          105          110
Leu Ser Gln Asn Cys Pro Arg Leu Ile Ile Leu Glu Val Ala Arg Cys
          115          120          125
Ser
129

```

<210> 1123

<211> 243

<212> PRT

<213> Homo sapiens

<400> 1123

```

Met Ala Ala Ala Leu Trp Gly Phe Phe Pro Val Leu Leu Leu Leu
 1          5          10          15
Leu Ser Gly Asp Val Gln Ser Ser Glu Val Pro Gly Ala Ala Glu
          20          25          30
Gly Ser Gly Gly Ser Gly Val Gly Ile Gly Asp Arg Phe Lys Ile Glu
          35          40          45
Gly Arg Ala Val Val Pro Gly Val Lys Pro Gln Asp Trp Ile Ser Ala

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      50              55              60
Ala Arg Val Leu Val Asp Gly Glu Glu His Val Gly Phe Leu Lys Thr
 65              70              75              80
Asp Gly Ser Phe Val Val His Asp Ile Pro Ser Gly Ser Tyr Val Val
      85              90              95
Glu Val Val Ser Pro Ala Tyr Arg Phe Asp Pro Val Arg Val Asp Ile
      100              105              110
Thr Ser Lys Gly Lys Met Arg Ala Arg Tyr Val Asn Tyr Ile Lys Thr
      115              120              125
Ser Glu Val Val Arg Leu Pro Tyr Pro Leu Gln Met Lys Ser Ser Gly
      130              135              140
Pro Pro Ser Tyr Phe Ile Lys Arg Glu Ser Trp Gly Trp Thr Asp Phe
145              150              155              160
Leu Met Asn Pro Met Val Met Met Met Val Leu Pro Leu Leu Ile Phe
      165              170              175
Val Leu Leu Pro Lys Val Val Asn Thr Ser Asp Pro Asp Met Arg Arg
      180              185              190
Glu Met Glu Gln Ser Met Asn Met Leu Asn Ser Asn His Glu Leu Pro
      195              200              205
Asp Val Ser Glu Phe Met Thr Arg Leu Phe Ser Ser Lys Ser Ser Gly
      210              215              220
Lys Ser Ser Ser Gly Ser Ser Lys Thr Gly Lys Ser Gly Ala Gly Lys
225              230              235              240
Arg Arg *
242

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<210> 1124
<211> 71
<212> PRT
<213> Homo sapiens

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```

<400> 1124
Met Leu Ser Tyr Ala His Ile Thr Leu Ala Val Leu Arg Ile Pro Ser
 1              5              10              15
Ala Thr Gly Cys Trp Arg Ala Phe Phe Thr Cys Ala Ser His Leu Thr
      20              25              30
Val Val Thr Val Phe Tyr Thr Ala Leu Leu Phe Met Tyr Val Arg Pro
      35              40              45
Gln Ala Ile Asp Ser Arg Ser Ser Asn Lys Leu Ile Ser Val Leu Tyr
      50              55              60
Thr Val Ile Thr Pro Ser Val
65              70 71

```

```

<210> 1125
<211> 48
<212> PRT
<213> Homo sapiens

```

```

<400> 1125
Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
 1              5              10              15
Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
      20              25              30

```

Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser *
 35 40 45 47

<210> 1126
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1126
 Met Phe Leu Ile Val Leu Pro Leu Glu Ser Met Ala His Gly Leu Phe
 1 5 10 15
 His Glu Leu Gly Asn Cys Leu Gly Gly Thr Ser Val Gly Tyr Ala Ile
 20 25 30
 Val Ile Pro Thr Asn Phe Cys Ser Pro Asp Gly Gln Pro Thr Leu Leu
 35 40 45
 Pro Pro Glu His Val Gln Glu Leu Asn Leu Arg Ser Thr Gly Met Leu
 50 55 60
 Asn Ala Ile Gln Arg Phe Phe Ala Tyr His Met Ile Glu Thr Tyr Gly
 65 70 75 80
 Cys Asp Tyr Ser Thr Ser Gly Leu Ser Phe Asp Thr Leu His Ser Lys
 85 90 95
 Leu Lys Ala Phe Leu Glu Leu Arg Thr Val Asp Gly Pro Arg His Asp
 100 105 110
 Thr Tyr Ile Leu Tyr Tyr Ser Gly His Thr His Gly Thr Gly Glu Trp
 115 120 125
 Ala Leu Ala Gly Gly Asp Thr Leu Arg Leu Asp Thr Leu Ile Glu Trp
 130 135 140
 Trp Arg Glu Lys Asn Gly Ser Phe Cys Ser Pro Pro Tyr Tyr Arg
 145 150 155 159

<210> 1127
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1127
 Met Thr Gly Pro Arg Pro Met Ile Leu His Phe Ile Leu Val Ala Ser
 1 5 10 15
 Ala Ser Cys Trp Glu Val Leu Phe Cys Cys Trp Gln Pro Cys Pro Leu
 20 25 30
 Gly Ile His Ala Thr Ser Asn Ser Pro Ser Gln Leu Gln Gln Leu Ser
 35 40 45
 Cys Thr Lys Leu Pro Leu Met Phe Arg Arg Ile Leu Glu Asp Thr Ile
 50 55 60
 Phe Ala Ile Leu Tyr His Ile Ala Thr Ile Phe *
 65 70 75

<210> 1128
 <211> 140
 <212> PRT
 <213> Homo sapiens

<400> 1128
 Met Gly Ala Gly Leu Ala Val Val Pro Leu Met Gly Leu Leu Glu Ser
 1 5 10 15
 Ile Ala Val Ala Lys Ala Phe Ala Ser Gln Asn Asn Tyr Arg Ile Asp
 20 25 30
 Ala Asn Gln Glu Leu Leu Ala Ile Gly Leu Thr Asn Met Leu Gly Ser
 35 40 45
 Leu Val Ser Ser Tyr Pro Val Thr Gly Ser Phe Gly Arg Thr Ala Val
 50 55 60
 Asn Ala Gln Ser Gly Val Cys Thr Pro Ala Glu Gly Leu Val Thr Glu
 65 70 75 80
 Val Leu Val Leu Leu Ser Leu Asp Tyr Leu Thr Ser Leu Phe Tyr Tyr
 85 90 95
 Ile Pro Lys Ser Ala Leu Ala Ala Val Ile Ile Met Ala Val Ala Pro
 100 105 110
 Leu Phe Asp Thr Lys Ile Phe Arg Thr Leu Trp Arg Val Lys Arg Leu
 115 120 125
 Asp Leu Leu Ser Leu Ser Val Thr Phe Leu Leu Cys
 130 135 140

<210> 1129
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 1129
 Met Ala Glu Ala Phe Pro Phe Phe Ser Pro Phe Leu Gly Trp Leu Gly
 1 5 10 15
 Val Phe Leu Thr Gly Ser Asp Thr Ser Ser Asn Ala Leu Phe Ser Ser
 20 25 30
 Leu Gln Ala Thr Thr Ala His Gln Ile Gly Val Ser Asp Val Leu Leu
 35 40 45
 Val Ala Ala Asn Thr Ser Gly Gly Val Thr Gly Lys Met Ile Ser Pro
 50 55 60
 Gln Ser Ile Ala Val Ala Cys Ala Ala Thr Gly Leu Val Gly Lys Glu
 65 70 75 80
 Ser Asp Leu Phe Arg Phe Thr Leu Lys His Ser Leu Phe Phe Ala Thr
 85 90 95
 Ile Val Gly Leu Ile Thr Leu Ala Gln Ala Tyr Trp Phe Thr Gly Met
 100 105 110
 Leu Val His *
 115

<210> 1130
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1130
 Met Asn Lys Leu Leu Val Ala Ala Thr Ala Ile Leu Phe Ser Leu Gly
 1 5 10 15

Cys His Glu Lys Cys Lys Ile Phe Phe Leu Lys Ser Ile Ser Ser Pro
 20 25 30
 Gln Ser Leu Phe Leu Ala Asp Leu Cys Ala Ser Glu Pro Tyr Leu Leu
 35 40 45
 Phe Leu Asn Ala Val Leu Ser Ala Cys Asn Thr Ile Ser Phe Ile Ser
 50 55 60
 Val Pro Glu Ser Ser Gly Phe Ala Pro Ser Pro Pro Ala Ile Leu Leu
 65 70 75 80
 Leu
 81

<210> 1131
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1131
 Met Cys Cys Trp Ile Trp Phe Ala Ser Ile Leu Leu Arg Ile Phe Ala
 1 5 10 15
 Leu Met Phe Ile Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Val Val
 20 25 30
 Ser Leu Pro Gly Phe Gly Ile Arg Met Met Leu Ala Ser *
 35 40 45

<210> 1132
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1132
 Met Ser Gln Glu Pro Gly Arg Arg His Ser Lys Leu Thr Leu Thr Ala
 1 5 10 15
 Ser Arg Met Ala Pro Cys Leu Trp Val Trp Thr Ser Leu Cys Gln Ala
 20 25 30
 Trp Ser Met Ser Met Gly Ser Leu Ser Met Gln Thr Thr *
 35 40 45

<210> 1133
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1133
 Met His Ser His Gly Val Ser Tyr Trp Thr Val Arg Thr Val Ile Trp
 1 5 10 15
 Pro Ile Ser Ser Leu Val Ser Lys Ile Thr Thr Trp Glu Phe Asn Glu
 20 25 30
 Val Thr Ser Met Ser Glu His Leu Lys Ser Cys Pro Phe Asn Ile Val
 35 40 45
 Glu His Lys Ser Asp Pro Ile Leu Leu Thr Ser Met Cys His Pro Arg

```

      50              55              60
Glu Gln Ala Arg Glu Ser Leu Leu Ser Thr Phe Arg Ile Arg Pro Arg
 65              70              75              80
Gly Arg Tyr Val Ser Tyr *
              85  86

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<210> 1134
<211> 57
<212> PRT
<213> Homo sapiens

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<400> 1134
Met Glu Ala His Gln Ser Phe Lys His Lys Ser Cys Thr Trp Ala Ile
 1              5              10              15
Thr Val Trp Phe His Phe Val Cys Phe Leu Asn Thr Phe Ser Cys Phe
              20              25              30
Phe Asn Lys Leu Ser Pro Ile Leu Glu Ser Leu Val Val Gly Ser Ile
              35              40              45
Ser Arg His Leu Leu Arg Glu Leu *
              50              55  56

```

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<210> 1135
<211> 57
<212> PRT
<213> Homo sapiens

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```

<400> 1135
Met Glu Ala His Gln Ser Phe Lys His Lys Ser Cys Thr Trp Ala Ile
 1              5              10              15
Thr Val Trp Phe His Phe Val Cys Phe Leu Asn Thr Phe Ser Cys Phe
              20              25              30
Phe Asn Lys Leu Ser Pro Ile Leu Glu Ser Leu Val Val Gly Ser Ile
              35              40              45
Ser Arg His Leu Leu Arg Glu Leu *
              50              55  56

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<210> 1136
<211> 105
<212> PRT
<213> Homo sapiens

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```

<400> 1136
Met Pro Phe Ala Gln Thr Gly Leu Gln Leu Leu Arg Leu Cys Arg
 1              5              10              15
Val Leu His Val Leu Arg Leu Leu Gly Met Leu Arg Glu Gln Met His
              20              25              30
Leu Leu Arg Glu Lys Leu Leu Asp Leu Leu Pro Pro Glu Leu Cys Gln
              35              40              45
Arg Val Pro Arg Ala Ala Thr Ala Lys Gly His Lys Arg Arg Ala Ala
              50              55              60

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Ala Val Pro Asp Asp Gly Thr Asp Leu Leu Pro Gln Gly Met Arg Thr
 65              70              75              80
Ala Cys Thr Thr Arg Arg Ile Phe Lys Tyr Asn Thr Glu Pro Phe Ala
              85              90              95
Ala Phe Leu Phe Ile Leu Asn Met *
              100              104

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<210> 1137
<211> 52
<212> PRT
<213> Homo sapiens

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<400> 1137
Met Val Gly Phe Tyr Leu Gln Ser Val Leu Tyr Phe Tyr Phe Ser Gln
 1              5              10              15
Leu Ile Tyr Leu Gly Asp His Ala Lys Ser Val Asn Ile Val Thr Ser
              20              25              30
Phe Ile Leu Thr Ala Ala Tyr Val Asn Asn Ser Lys Met His His Thr
              35              40              45
Val Phe Asn *
              50 51

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<210> 1138
<211> 187
<212> PRT
<213> Homo sapiens

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```

<400> 1138
Met Gln Pro Ile Val Ala Lys Ala Leu Val Val Leu Leu Glu Val His
 1              5              10              15
Pro Leu Gln Asp Gln Ala Glu Ser Gly Arg Leu Gly His Val His Leu
              20              25              30
Leu Cys Ala Pro Ala Ala Leu Gln His Ala Leu Arg Gly Ile Thr Leu
              35              40              45
His Asn Gly His His Gln Ala Asp His Leu Pro Asp Leu Met His His
              50              55              60
Glu Ala Leu Ala Leu His Pro Asp His Arg Lys Leu Gln Ala Leu Pro
 65              70              75              80
His Lys Gly Phe Leu Ala Val His Leu Gln Asp Val Ala Ala Gly Thr
              85              90              95
Gly Ile Leu Arg Pro Leu Leu Arg Gly Glu Ile Val Glu Val Val Arg
              100              105              110
Ala Leu Val Ala Gly Gln Glu Pro Val Asp Leu Leu Gln Arg Leu Gly
              115              120              125
Ala Gln Ala Val Gly Leu Ile Leu Asn Val Pro Val Leu Val Arg Lys
              130              135              140
Gly Lys Arg Gly Gln Gln Val Ala Ile Gly Pro Gly Ile Thr Ser Val
 145              150              155              160
Leu Gly Val Lys Pro Ala Arg Asp Pro Leu Gln Ser Gln Asn Pro Asn
              165              170              175
Val Arg Gly Lys Val Ala Val Asp Leu Phe *
              180              185 186

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<210> 1139
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1139
 Met Trp Gln Lys Ser Leu Leu Ile Leu Ser Phe Arg Val Ser Phe Pro
 1 5 10 15
 Leu Phe Leu Thr Tyr Asn Tyr Lys Leu Leu Ser Ile Arg Arg Thr Arg
 20 25 30
 Pro Leu Ser Ser Phe Phe Ser Lys Leu Leu Gln Ile Ala Val Asn Ser
 35 40 45
 Ile Asn Ser Leu Phe Ser Ala Gly Lys Val Ala Phe Ser Lys His Val
 50 55 60
 Cys Leu Leu Pro Gly Gly Leu Lys Ser Met Ile Tyr Cys Ser Ser Met
 65 70 75 80
 Cys Leu Lys Gln Leu Leu Arg Ser Phe Lys Gln Glu Ser Ser Lys Gly
 85 90 95
 Ser Val Leu Ile Met Val Leu Val Phe Leu Gln Ile *
 100 105 108

<210> 1140
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1140
 Met Pro Ala Pro Thr Ala Trp Leu Leu Pro Ala Val Ser Thr Cys Ser
 1 5 10 15
 Asn Leu Arg Ala Lys Ala Gly Val Ile Leu Gly Thr Ile Thr Thr Arg
 20 25 30
 Pro Tyr Val His Thr Trp Gly Ser Ala Asp Met Ala Thr Pro Tyr His
 35 40 45
 Leu Gly Pro Phe Trp Thr Leu Gly Thr Asp Lys His Arg Arg Glu Ala
 50 55 60
 Asn Arg Gly Gln Arg Ala Ile Trp Gly Trp Pro Thr Gly Pro Pro Trp
 65 70 75 80
 His Leu *
 82

<210> 1141
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1141
 Met Tyr Gln Trp Gly Ser Ser Ile Ile Leu Ile Leu Trp Pro Leu Ser
 1 5 10 15
 Met Asn Ile Gly Cys Tyr Ser Ile Tyr Leu Lys Met Val Met Leu Leu
 20 25 30

Ser Ser Lys Phe Ser Trp Lys Ser Phe Ser Lys Leu Gln Phe Leu Leu
 35 40 45
 Leu Leu Lys Phe Arg Tyr Met Cys Ile *
 50 55 57

<210> 1142
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1142
 Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu
 1 5 10 15
 Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser
 20 25 30
 Pro Ser Ser Arg Met Trp Lys Ser Ile Ile Phe Phe Leu *
 35 40 45

<210> 1143
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1143
 Met Leu Trp Ala Leu Ile Arg Ala Ala Leu Ala Gln Leu His Thr Glu
 1 5 10 15
 Glu Pro Lys Lys Arg Lys Glu Glu Lys Met Ser Pro Ala Leu Ser Pro
 20 25 30
 Pro Leu Pro Ser Val Pro Ile Ser Leu Gly Gln Asn Asn Arg Lys Arg
 35 40 45
 Arg Ser His Leu Ser Leu Leu Leu Gln *
 50 55 57

<210> 1144
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 1144
 Met Ala Tyr Thr Met Ile Pro Val Leu His Phe Phe Cys Cys Glu Thr
 1 5 10 15
 Ser Ser Leu Val Arg Thr Lys Val Val Trp Glu Ala Ile Asn Met Val
 20 25 30
 Phe Ala Lys Ser Met Asn Gly Gly Pro Asp Arg Cys Ile Ala Val Arg
 35 40 45
 Gln Val Lys Phe Leu Phe Arg Lys Val Ser Phe Ser Glu Lys Ile Asp
 50 55 60
 His Cys Pro Leu His Asp Gly Asn Ile Leu Leu Pro Gly Pro Trp Glu
 65 70 75 80
 Met Ala Pro Tyr Trp Gly Leu Asn Ile Ser Leu Cys His Leu Gln Phe

```

      85          90          95
Arg His Ser Ile Val Ser Leu Ala Arg Cys Ser Leu Gly Glu Gly Gln
      100      105      110
Ser Met Leu Trp Cys Pro Cys Leu Thr Ser Ile Ser Val Asp Met Ala
      115      120      125
Thr Leu Tyr Ile Asn Ala Ser Ser Ser Leu Ser Ser Lys Gly Lys Lys
      130      135      140
Ala Asp *
145 146

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<210> 1145
<211> 103
<212> PRT
<213> Homo sapiens

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<400> 1145
Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Gly
  1          5          10          15
Ser Val Ala Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
      20          25          30
Pro Gly Lys Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Gly Asp
      35          40          45
Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Ala Gly Gln Ser Pro Val Leu
      50          55          60
Val Ile Tyr Glu Asp Ser Arg Arg Pro Ser Gly Ile His Lys Arg Phe
      65          70          75          80
Tyr Gly Ser Asn Ser Gly Thr Thr Ala Thr Leu Thr Ile Ser Gly Thr
      85          90          95
Gln Ala Met Asp Glu Gly *
      100      102

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<210> 1146
<211> 77
<212> PRT
<213> Homo sapiens

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<400> 1146
Met Pro Leu Leu His Gly Val Tyr Leu Ala Arg Arg Ser Leu Ile Cys
  1          5          10          15
Ile Ser Phe Cys His Leu Cys Val Leu Ser Ile Gly Leu Arg Val Ile
      20          25          30
Val Cys Val Val Gly Ile Ser Glu Asp Arg Lys Arg Ser Ala Ser Ala
      35          40          45
Pro Thr Leu Gly Ile Val Pro Leu His Ala Ser Leu His Gln His Cys
      50          55          60
Ala Pro Asn Gln Ser Asn Pro Cys Ser Trp His Leu *
      65          70          75          76

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<210> 1147
<211> 118
<212> PRT

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<213> Homo sapiens

<400> 1147

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Met Asn Pro Ser Ala Ser Leu Val Cys Leu Leu Phe Ala Phe Ser Ser
 1           5           10           15
Cys Arg Ile Trp Ser Val Leu Cys Gln Leu Cys Val Pro Ser Pro Trp
           20           25           30
Pro Ser Pro Leu Cys Leu Cys Pro Gln Thr Asp Val Ala Pro Ile Cys
           35           40           45
Ala Val Gln Pro Ser Leu Phe Cys Leu Gly Ser Arg Glu Pro Leu Trp
           50           55           60
Thr Val Leu Val Gly Ser Cys Pro Leu Arg Ala Phe Thr Asn Leu Ser
           65           70           75           80
Val Arg Pro Pro Pro Gly His His Ser Ile His Leu Leu Thr Trp Leu
           85           90           95
Ala Ser Ser Ser Ala Ala Ala Thr Thr Ala Ala Ser Thr Ala Ser Gly
           100          105          110
Ala Pro His Ser Val *
           115          117

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<210> 1148

<211> 399

<212> PRT

<213> Homo sapiens

<400> 1148

```

Met Trp Ala Ala Val Gly Gly Phe Leu Phe Ala Pro Arg Cys Phe Leu
 1           5           10           15
Leu Pro Trp Pro Leu Arg Ala Pro Leu Ser Ser Leu Phe Val Leu Pro
           20           25           30
Arg Leu Leu Leu Trp Pro Ile Pro Tyr Pro Val Leu Ala Ser Val Cys
           35           40           45
Pro Cys Val Pro Gly Gly Arg Phe Phe Gly Pro Leu Tyr Pro Arg Asp
           50           55           60
Leu Arg Leu Leu Arg Cys Val Pro Gly Glu Leu Thr Gly Ala Ala Pro
           65           70           75           80
Arg Thr Leu Pro Gly Cys Asp Leu Asn Cys Leu Gly Leu Gly Arg Glu
           85           90           95
Ala Ala Val Pro Arg Leu Leu Arg Leu Thr Arg Asp Pro Ala Arg Pro
           100          105          110
Ser Cys Arg Thr Leu Gly Val His Ala Val Pro Arg Arg Ala Phe Gly
           115          120          125
Phe Tyr Ala Val Pro Arg Arg Asp Pro Arg Phe Tyr Ala Val Pro Arg
           130          135          140
Arg Val Pro Arg Leu Tyr Ala Val Pro His Pro Ala Leu Arg Val Tyr
           145          150          155          160
Ala Val Pro Arg Arg Thr Phe Arg Val Tyr Ala Val Pro His Pro Ala
           165          170          175
Leu Arg Val Tyr Ala Val Pro Arg Arg Ala Leu Gly Leu Tyr Val Val
           180          185          190
Pro Gln Arg Ala Leu Arg Val Tyr Ala Val Pro Arg Arg Thr Phe Arg
           195          200          205
Val Tyr Ala Val Pro His Pro Ala Leu Arg Leu Tyr Ala Val Ala Arg
           210          215          220
Arg Ala Leu Arg Phe Tyr Val Val Pro Gln Arg Ala Leu Arg Val Tyr

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225          230          235          240
Ala Val Pro Arg Leu Pro Gly Arg Ala Thr Phe Arg Asp Leu Arg Pro
          245          250          255
Leu Leu Arg Leu Leu Leu Pro Leu Gly Gly Arg Arg Val Leu Gly Leu
          260          265          270
Pro Leu Ser Leu Pro Ala Gly Leu Ala Leu Arg Ala Ala Ser Arg Ala
          275          280          285
Arg Pro Leu His Leu Leu Arg Ala Ala Cys Leu Leu Pro Ser Leu Gly
          290          295          300
His Leu Gly Thr Leu Arg Gly Ser Leu Leu Gly Leu Ser Leu Ala Val
305          310          315          320
Arg Pro Pro Arg Ala Pro Arg Leu Gly Leu Arg Ala Pro Val Trp Pro
          325          330          335
Ala Ala Ser Cys Leu Leu His Ser Gly Gly Ala Pro Arg Arg Leu Leu
          340          345          350
Cys Ala Leu Ala Pro Leu Arg Pro Phe Cys Leu Pro Ala Arg Gly Ser
          355          360          365
Trp Leu Ser Gly Ser Leu Ser Gln Arg Arg Gly Asp Leu Arg Arg Pro
          370          375          380
Leu Gly Thr Arg Gly Asn Pro Leu Arg Leu Arg Gly Leu Gly His
385          390          395          399

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<210> 1149
<211> 67
<212> PRT
<213> Homo sapiens

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<400> 1149
Met Pro Ser Tyr Phe Lys Thr Cys Ser Leu Phe Thr Leu Leu Ser Ser
 1          5          10          15
Val Phe Leu Val Cys Ile Trp Ile Phe Lys Thr Asn Ile Lys Ser Ser
          20          25          30
Val Ser Glu Ser Pro Pro Asp Ser Gly Leu Gly Gln Val Thr Ala Val
          35          40          45
Tyr Gln Val Gln Cys Leu Cys Trp Ala Lys Asp Cys Asn Tyr Pro Ile
          50          55          60
Cys Ser *
65 66

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<210> 1150
<211> 70
<212> PRT
<213> Homo sapiens

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<400> 1150
Met Leu Val Ser Lys Leu Met Leu Gln Ile Val Met Ala Val Pro His
 1          5          10          15
Tyr Ile Met Pro Val Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu
          20          25          30
Leu Glu Ala Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser
          35          40          45
Ser Leu Asp Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met
          50          55          60

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Leu Arg Lys Ala Leu *
65 69

<210> 1151
<211> 48
<212> PRT
<213> Homo sapiens

<400> 1151
Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu
1 5 10 15
Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro
20 25 30
Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg *
35 40 45 47

<210> 1152
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1152
Met Lys Asp His Leu Glu Phe Pro Phe Leu Asp Leu Leu Asp Leu Thr
1 5 10 15
Asp Ser Leu Gly Leu Leu Gly Phe Gln Gly Leu Leu Ala Leu Ala
20 25 30
Leu Thr Phe Leu Leu Val Met Arg Tyr Val Asn Gln Ala Leu Gln Ala
35 40 45
Pro Gln Asp Leu Gln Val Ile Lys Asp Ser Lys Glu Asn Lys Glu *
50 55 60 63

<210> 1153
<211> 61
<212> PRT
<213> Homo sapiens

<400> 1153
Met Thr Ala Arg Phe Leu Leu Ala Arg Pro Ala Tyr Ser Ser Ala Leu
1 5 10 15
Leu Arg Gly Leu Gly Gly Pro Arg Thr Pro Leu Ile Gln Phe Ser Arg
20 25 30
Cys Gly Met Met Ser Ile Arg Leu Leu Gly Leu Phe Pro Leu Cys Leu
35 40 45
Cys Ser Val Leu Trp Phe Pro Gln Gln His Ser Leu *
50 55 60

<210> 1154
<211> 75

<212> PRT
 <213> Homo sapiens

<400> 1154
 Met Asp Ser Thr Phe Leu Ala Thr Arg Ala Val Arg Gly Gln Leu Tyr
 1 5 10 15
 Leu Trp Ile Ser Met Leu Thr Ile Ala Thr Gly Lys Leu Cys Ala Arg
 20 25 30
 Cys Tyr Pro Glu Asn Gln Asp His Ile Ile Gln Met Leu Pro Cys Ser
 35 40 45
 Pro Ala Ser Val Ile Leu His Leu Pro Trp Met Met Lys Phe Phe Leu
 50 55 60
 Ala Arg His Leu Ile Lys Trp Leu Glu Asn *
 65 70 74

<210> 1155
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1155
 Met Met Ala Lys Ser Val Arg Phe Cys Tyr Val Leu Phe Val Glu Glu
 1 5 10 15
 Ile Arg Phe Ala Val Leu Val Val Gln Arg Leu Ala Lys Ser Asp Leu
 20 25 30
 Trp Ala Lys Ser Gly Leu Leu Ser Ile Phe Ile Phe Ile Ser Lys Val
 35 40 45
 Leu Leu Lys Gln Thr His Leu Leu Val Cys Arg Met Tyr Ile Ala Ala
 50 55 60
 Phe Ala Leu *
 65 67

<210> 1156
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1156
 Met Ile Tyr Phe Leu Ser Thr Pro Leu Leu Leu Thr Leu Phe Asn Ile
 1 5 10 15
 Leu Met Thr Phe Phe Phe Val Ala Pro Pro Leu Asn Leu Leu Asn Lys
 20 25 30
 Thr His Phe Cys Phe Phe Ser Ser Tyr Ser Leu Lys Asp Phe Arg Cys
 35 40 45
 Pro Pro Pro Lys Leu Lys Phe Leu Leu His Pro *
 50 55 59

<210> 1157
 <211> 776
 <212> PRT

<213> Homo sapiens

<400> 1157

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Met Leu Phe Ile Val Thr Ala Leu Leu Cys Cys Gly Leu Cys Asn Gly
 1           5           10           15
Val Leu Ile Glu Glu Thr Glu Ile Val Met Pro Thr Pro Lys Pro Glu
           20           25           30
Leu Trp Ala Glu Thr Asn Phe Pro Leu Ala Pro Trp Lys Asn Leu Thr
           35           40           45
Leu Trp Cys Arg Ser Pro Ser Gly Ser Thr Lys Glu Phe Val Leu Leu
           50           55           60
Lys Asp Gly Thr Gly Trp Ile Ala Thr Arg Pro Ala Ser Glu Gln Val
           65           70           75           80
Arg Ala Ala Phe Pro Leu Gly Ala Leu Thr Gln Ser His Thr Gly Ser
           85           90           95
Tyr His Cys His Ser Trp Glu Glu Met Ala Val Ser Glu Pro Ser Glu
           100          105          110
Ala Leu Glu Leu Val Gly Thr Asp Ile Leu Pro Lys Pro Val Ile Ser
           115          120          125
Ala Ser Pro Thr Ile Arg Gly Gln Glu Leu Gln Leu Arg Cys Lys Gly
           130          135          140
Trp Leu Ala Gly Met Gly Phe Ala Leu Tyr Lys Glu Gly Glu Gln Glu
           145          150          155          160
Pro Val Gln Gln Leu Gly Ala Val Gly Arg Glu Ala Phe Phe Thr Ile
           165          170          175
Gln Arg Met Glu Asp Lys Asp Glu Gly Asn Tyr Ser Cys Arg Thr His
           180          185          190
Thr Glu Lys Arg Pro Phe Lys Trp Ser Glu Pro Ser Glu Pro Leu Glu
           195          200          205
Leu Val Ile Lys Glu Met Tyr Pro Lys Pro Phe Phe Lys Thr Trp Ala
           210          215          220
Ser Pro Val Val Thr Pro Gly Ala Arg Val Thr Phe Asn Cys Ser Thr
           225          230          235          240
Pro His Gln His Met Ser Phe Ile Leu Tyr Lys Asp Gly Ser Glu Ile
           245          250          255
Ala Ser Ser Asp Arg Ser Trp Ala Ser Pro Gly Ala Ser Ala Ala His
           260          265          270
Phe Leu Ile Ile Ser Val Gly Ile Gly Asp Gly Gly Asn Tyr Ser Cys
           275          280          285
Arg Tyr Tyr Asp Phe Ser Ile Trp Ser Glu Pro Ser Asp Pro Val Glu
           290          295          300
Leu Val Val Thr Glu Phe Tyr Pro Lys Pro Thr Leu Leu Ala Gln Pro
           305          310          315          320
Gly Pro Val Val Phe Pro Gly Lys Ser Val Ile Leu Arg Cys Gln Gly
           325          330          335
Thr Phe Gln Gly Met Arg Phe Ala Leu Leu Gln Glu Gly Ala His Val
           340          345          350
Pro Leu Gln Phe Arg Ser Val Ser Gly Asn Ser Ala Asp Phe Leu Leu
           355          360          365
His Thr Val Gly Ala Glu Asp Ser Gly Asn Tyr Ser Cys Ile Tyr Tyr
           370          375          380
Glu Thr Thr Met Ser Asn Arg Gly Ser Tyr Leu Ser Met Pro Leu Met
           385          390          395          400
Ile Trp Val Thr Asp Thr Phe Pro Lys Pro Trp Leu Phe Ala Glu Pro
           405          410          415
Ser Ser Val Val Pro Met Gly Gln Asn Val Thr Leu Trp Cys Arg Gly
           420          425          430
Pro Val His Gly Val Gly Tyr Ile Leu His Lys Glu Gly Glu Ala Thr

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		435						440						445				
Ser	Met	Gln	Leu	Trp	Gly	Ser	Thr	Ser	Asn	Asp	Gly	Ala	Phe	Pro	Ile			
	450					455					460							
Thr	Asn	Ile	Ser	Gly	Thr	Ser	Met	Gly	Arg	Tyr	Ser	Cys	Cys	Tyr	His			
465				470						475					480			
Pro	Asp	Trp	Thr	Ser	Ser	Ile	Lys	Ile	Gln	Pro	Ser	Asn	Thr	Leu	Glu			
				485					490					495				
Leu	Leu	Val	Thr	Gly	Leu	Leu	Pro	Lys	Pro	Ser	Leu	Leu	Ala	Gln	Pro			
			500					505					510					
Gly	Pro	Met	Val	Ala	Pro	Gly	Glu	Asn	Met	Thr	Leu	Gln	Cys	Gln	Gly			
		515					520					525						
Glu	Leu	Pro	Asp	Ser	Thr	Phe	Val	Leu	Leu	Lys	Glu	Gly	Ala	Gln	Glu			
	530					535					540							
Pro	Leu	Glu	Gln	Gln	Arg	Pro	Ser	Gly	Tyr	Arg	Ala	Asp	Phe	Trp	Met			
545					550					555					560			
Pro	Ala	Val	Arg	Gly	Glu	Asp	Ser	Gly	Ile	Tyr	Ser	Cys	Val	Tyr	Tyr			
				565					570					575				
Leu	Asp	Ser	Thr	Pro	Phe	Ala	Ala	Ser	Asn	His	Ser	Asp	Ser	Leu	Glu			
			580					585					590					
Ile	Trp	Val	Thr	Asp	Lys	Pro	Pro	Lys	Pro	Ser	Leu	Ser	Ala	Trp	Pro			
		595					600					605						
Ser	Thr	Met	Phe	Lys	Leu	Gly	Lys	Asp	Ile	Thr	Leu	Gln	Cys	Arg	Gly			
	610					615					620							
Pro	Leu	Pro	Gly	Val	Glu	Phe	Val	Leu	Glu	His	Asp	Gly	Glu	Glu	Ala			
625					630					635					640			
Pro	Gln	Gln	Phe	Ser	Glu	Asp	Gly	Asp	Phe	Val	Ile	Asn	Asn	Val	Glu			
				645					650					655				
Gly	Lys	Gly	Ile	Gly	Asn	Tyr	Ser	Cys	Ser	Tyr	Arg	Leu	Gln	Ala	Tyr			
			660					665						670				
Pro	Asp	Ile	Trp	Ser	Glu	Pro	Ser	Asp	Pro	Leu	Glu	Leu	Val	Gly	Ala			
		675					680					685						
Ala	Gly	Pro	Val	Ala	Gln	Glu	Cys	Thr	Val	Gly	Asn	Ile	Val	Arg	Ser			
	690					695					700							
Ser	Leu	Ile	Val	Val	Val	Val	Val	Ala	Leu	Gly	Val	Val	Leu	Ala	Ile			
705					710					715					720			
Glu	Trp	Lys	Lys	Trp	Pro	Arg	Leu	Arg	Thr	Arg	Gly	Ser	Glu	Thr	Asp			
				725					730					735				
Gly	Arg	Asp	Gln	Thr	Ile	Ala	Leu	Glu	Glu	Cys	Asn	Gln	Glu	Gly	Glu			
			740					745					750					
Pro	Gly	Thr	Pro	Ala	Asn	Ser	Pro	Ser	Ser	Thr	Ser	Gln	Arg	Ile	Ser			
		755					760					765						
Val	Glu	Leu	Pro	Val	Pro	Ile	*											
	770					775												

```
<210> 1158
<211> 80
<212> PRT
<213> Homo sapiens
```

<400> 1158															
Met	Ile	Gln	Leu	Phe	Phe	Val	Leu	Tyr	Gly	Ile	Leu	Ala	Leu	Ala	Phe
1				5					10					15	
Leu	Ser	Gly	Tyr	Tyr	Val	Thr	Leu	Ala	Ala	Gln	Ile	Leu	Ala	Val	Leu
			20					25					30		
Leu	Pro	Pro	Val	Met	Leu	Leu	Ile	Asp	Gly	Asn	Val	Ala	Tyr	Trp	His
		35					40					45			

```

Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu Leu Gly Glu
   50           55           60
Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr Asp Gly *
   65           70           75           79

```

```

<210> 1159
<211> 132
<212> PRT
<213> Homo sapiens

```

```

<400> 1159
Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val
  1           5           10           15
Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly
           20           25           30
Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp
           35           40           45
Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala
           50           55           60
Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu
           65           70           75           80
Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln
           85           90           95
Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp
           100           105           110
Pro Thr Ala Ile Lys Tyr Phe Leu Thr Gln Ala Thr Ala Ser Ile Ile
           115           120           125
Leu Leu Ile Ala
           130           132

```

```

<210> 1160
<211> 167
<212> PRT
<213> Homo sapiens

```

```

<400> 1160
Met Val Gly Leu Gly Gly Met Ser Gln Leu Leu Leu Ala Ser Leu Leu
  1           5           10           15
Pro Pro Val Pro Gln Gly Ser Pro Thr Arg Arg Lys Leu Pro Ala Ser
           20           25           30
Leu Leu Val Ser Thr Ala Leu Ile Ser Pro Val Cys Val Arg Gly Trp
           35           40           45
Met Trp Gln Asn Leu Gln Asn Arg Ile His Gly Ser His Thr Ser Ala
           50           55           60
Arg Arg Val Pro Ser Leu Pro Gly Ala Gly Gln Val Gly Val Arg Trp
           65           70           75           80
Glu Ala Gly Pro Ala Cys Arg Thr Gln Pro Ser Pro Gln Asn Leu Ala
           85           90           95
Pro Arg Pro His Pro Ser Ala Ala Gln Leu Ile Glu Asn Ala Ala Leu
           100           105           110
Arg Ser Ala Met Ser Gly Glu Arg Leu Phe Pro Glu Gly Gln Glu His
           115           120           125
Leu Gly Pro Leu Val Ala Pro Arg Val Pro Met Gly Gly Ala Leu Cys

```

```

      130              135              140
Pro Pro Leu Pro Ser Leu Ser Cys Ala Ile Cys Lys Val Gly Ala Ala
145              150              155              160
Arg Glu Ala Gly Gly Arg *
      165 166

```

```

<210> 1161
<211> 84
<212> PRT
<213> Homo sapiens

```

```

      <400> 1161
Met Ala Asn Leu Leu Leu Ile Val Pro Ile Leu Ile Ala Met Ala
 1              5              10              15
Phe Leu Met Leu Thr Glu Arg Lys Ile Leu Gly Tyr Ile Gln Leu Arg
      20              25              30
Lys Gly Pro Asn Val Val Gly Pro Tyr Gly Leu Leu Gln Pro Phe Ala
      35              40              45
Asp Ala Ile Lys Leu Phe Thr Lys Glu Pro Leu Lys Pro Ala Thr Ser
      50              55              60
Ala Ile Thr Leu Tyr Ile Thr Ala Pro Thr Leu Ala Leu Thr Ile Ala
 65              70              75              80
Leu Leu Leu *
      83

```

```

<210> 1162
<211> 80
<212> PRT
<213> Homo sapiens

```

```

      <400> 1162
Met Lys Ala Trp Cys Phe Ser Asn Lys Phe Trp Leu Ala Val Leu Pro
 1              5              10              15
Ile Cys Cys Ala Ser Ala Ala Tyr Leu Gly Gln Val Trp Leu Leu Ile
      20              25              30
Tyr Ala Trp Arg Ala Glu Thr Ser Leu Glu Thr Glu Phe Tyr Thr Ile
      35              40              45
Pro Leu Ser Trp Leu Tyr Tyr Phe Thr Thr Thr Tyr Tyr Leu Met Phe
      50              55              60
Leu Pro Ser Leu Lys Phe Ala Gln Asp Ser Pro Pro Arg Ala Phe *
 65              70              75              79

```

```

<210> 1163
<211> 71
<212> PRT
<213> Homo sapiens

```

```

      <400> 1163
Met Tyr Gly Leu Lys Ile Leu Ser His Leu Trp Val Leu Leu Ile Leu
 1              5              10              15

```

```

Ser Leu Leu Leu Phe Leu Arg Lys Ser Phe Lys Phe Tyr Ala Val Ser
      20      25      30
Phe Val Cys Phe Ala Phe Val Ala Phe Trp Asn Asn Leu Gln Lys Ile
      35      40      45
Ile Ala Gln Ala Asn Val Ile Gln Ser Pro Ser Ile Phe Pro Cys Ser
      50      55      60
Ser Ser Thr Phe Lys Leu *
      65      70

```

```

<210> 1164
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1164
Met Glu Thr Ala Val Ile Gly Val Val Val Val Leu Phe Val Val Thr
  1      5      10      15
Val Ala Ile Thr Cys Val Leu Cys Cys Phe Ser Cys Asp Ser Arg Ala
      20      25      30
Gln Asp Pro Gln Gly Gly Pro Gly Arg Ser Phe Thr Val Ala Thr Phe
      35      40      45
Arg Gln Glu Ala Ser Leu Phe Thr
      50      55  56

```

```

<210> 1165
<211> 97
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(97)
<223> Xaa = any amino acid or nothing

```

```

<400> 1165
Met Lys Met Leu Cys Gly Leu Leu Arg Thr Val Gln Gly Val Arg Phe
  1      5      10      15
Pro Gln Leu Thr Arg Ile His Gly Pro Ser Thr Gln Gly His Gln Leu
      20      25      30
Leu Leu Leu Trp Val Gly Val Leu Gln Val Gly Xaa Ser Ser Leu Gly
      35      40      45
Leu Gln Asn Asp Leu Met Gly Pro Ser Leu Gly Arg Gly Pro Pro Pro
      50      55      60
Leu Ala Ala Ser Thr Arg Cys Arg His Val Ala Gln Leu Gly Val Gly
      65      70      75      80
Leu Ser Lys Thr Trp Gln Pro Ser Thr His Gly Ile Ala Ser Ala Pro
      85      90      95  96
*
```

```

<210> 1166
<211> 48

```


<212> PRT

<213> Homo. sapiens

<400> 1166

Met	Leu	Ile	Phe	Val	Phe	Leu	Phe	Ser	Tyr	Leu	Ile	Ala	Leu	Ala	Gly
1				5					10					15	
Thr	Phe	Ser	Pro	Arg	Leu	Asn	Arg	Ser	Gly	Glu	Ser	Val	His	Pro	Phe
			20					25					30		
Ala	Leu	His	Pro	Val	Leu	Arg	Arg	Lys	His	Pro	Val	Ile	His	Leu	*
		35					40					45		47	

<210> 1167

<211> 274

<212> PRT

<213> Homo sapiens

<400> 1167

Met	Glu	Ala	Pro	Leu	Ser	His	Leu	Glu	Ser	Arg	Tyr	Leu	Pro	Ala	His
1				5					10					15	
Phe	Ser	Pro	Leu	Val	Phe	Phe	Leu	Leu	Leu	Ser	Ile	Met	Met	Ala	Cys
			20					25					30		
Cys	Leu	Val	Ala	Phe	Phe	Val	Leu	Gln	Arg	Gln	Pro	Arg	Cys	Trp	Glu
		35					40					45			
Ala	Ser	Val	Glu	Asp	Leu	Leu	Asn	Asp	Gln	Val	Thr	Leu	His	Ser	Ile
		50				55					60				
Arg	Pro	Arg	Glu	Glu	Asn	Asp	Leu	Gly	Pro	Ala	Gly	Thr	Val	Asp	Ser
		65			70				75					80	
Ser	Gln	Gly	Gln	Gly	Tyr	Leu	Glu	Glu	Lys	Ala	Ala	Pro	Cys	Cys	Pro
			85					90						95	
Ala	His	Leu	Ala	Phe	Ile	Tyr	Thr	Leu	Val	Ala	Phe	Val	Asn	Ala	Leu
		100						105					110		
Thr	Asn	Gly	Met	Leu	Pro	Ser	Val	Gln	Thr	Tyr	Ser	Cys	Leu	Ser	Tyr
		115					120					125			
Gly	Pro	Val	Ala	Tyr	His	Leu	Ala	Ala	Thr	Leu	Ser	Ile	Val	Ala	Asn
		130				135					140				
Pro	Leu	Ala	Ser	Leu	Val	Ser	Met	Phe	Leu	Pro	Asn	Arg	Ser	Leu	Leu
		145			150				155					160	
Phe	Leu	Gly	Val	Leu	Ser	Val	Leu	Gly	Thr	Cys	Phe	Gly	Gly	Tyr	Asn
			165					170						175	
Met	Ala	Met	Ala	Val	Met	Ser	Pro	Cys	Pro	Leu	Leu	Gln	Gly	His	Trp
		180						185					190		
Gly	Gly	Glu	Val	Leu	Ile	Val	Ser	Ile	Arg	Pro	Val	Ala	Ser	Trp	Val
		195					200					205			
Leu	Phe	Ser	Gly	Cys	Leu	Ser	Tyr	Val	Lys	Val	Met	Leu	Gly	Val	Val
		210				215					220				
Leu	Arg	Asp	Leu	Ser	Arg	Ser	Ala	Leu	Leu	Trp	Cys	Gly	Ala	Ala	Val
		225			230				235					240	
Gln	Leu	Gly	Ser	Leu	Leu	Gly	Ala	Leu	Leu	Met	Phe	Pro	Leu	Val	Asn
			245					250						255	
Val	Leu	Arg	Leu	Phe	Ser	Ser	Ala	Asp	Phe	Cys	Asn	Leu	His	Cys	Pro
			260					265					270		
Ala	*														
273															

<210> 1168
 <211> 230
 <212> PRT
 <213> Homo sapiens

<400> 1168
 Met Arg Ile Cys Asn Leu Ile Ser Met Met Leu Leu Leu Cys His Trp
 1 5 10 15
 Asp Gly Cys Leu Gln Phe Leu Val Pro Met Leu Gln Asp Phe Pro Arg
 20 25 30
 Asn Cys Trp Val Ser Ile Asn Gly Met Val Asn His Ser Trp Ser Glu
 35 40 45
 Leu Tyr Ser Phe Ala Leu Phe Lys Ala Met Ser His Met Leu Cys Ile
 50 55 60
 Gly Tyr Gly Arg Gln Ala Pro Glu Ser Met Thr Asp Ile Trp Leu Thr
 65 70 75 80
 Met Leu Ser Met Ile Val Gly Ala Thr Cys Tyr Ala Met Phe Ile Gly
 85 90 95
 His Ala Thr Ala Leu Ile Gln Ser Leu Asp Ser Ser Arg Arg Gln Tyr
 100 105 110
 Gln Glu Lys Tyr Lys Gln Val Glu Gln Tyr Met Ser Phe His Lys Leu
 115 120 125
 Pro Ala Asp Phe Arg Gln Lys Ile His Asp Tyr Tyr Glu His Arg Tyr
 130 135 140
 Gln Gly Lys Met Phe Asp Glu Asp Ser Ile Leu Gly Glu Leu Asn Gly
 145 150 155 160
 Pro Leu Arg Glu Glu Ile Val Asn Phe Asn Cys Arg Lys Leu Val Ala
 165 170 175
 Ser Met Pro Leu Phe Ala Asn Ala Asp Pro Asn Phe Val Thr Ala Met
 180 185 190
 Leu Thr Lys Leu Lys Phe Glu Val Phe Gln Pro Gly Asp Tyr Ile Ile
 195 200 205
 Pro Arg Arg His His Arg Glu Glu Asp Val Leu His Pro Ala Arg Arg
 210 215 220
 Gly Gln Arg Ala His *
 225 229

<210> 1169
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 1169
 Met Ala His Phe Thr Trp Ala His Leu Arg Val Leu Thr Leu Phe Leu
 1 5 10 15
 Leu Gln Val Gly Leu Leu Asp Asp Val His Gln Leu Leu Gly Pro Gln
 20 25 30
 Ala Asp Glu Asp Ser Leu Ser Ile Phe Thr Val Met Pro Ala Leu His
 35 40 45
 Gln Ser Gln Glu Gln Leu Gly Gly Ile Val Leu Glu Leu Gln His Gln
 50 55 60
 Ile His Ala Val Leu Ala Gln Gly Ala Asp Val Ile Glu Asp Gln Cys
 65 70 75 80
 Gly Asp Asp Val Tyr Ala Ile Gly Leu Val Ser His Asn Ala Ser Leu

```

      85      90      95
Val Leu Met Ala Gly Ala Leu Ala Val Leu Ser Glu Gly Leu Gln Gly
      100      105      110
Leu Asp Asp Glu Ala His Val Val Leu Ile Asp Val Glu Pro Gln Gln
      115      120      125
Pro Gln Ala Ala Arg Gly Ala Ala Ala His Asp Val Gln Glu Leu Gln
      130      135      140
Arg Leu Ala Tyr Gln Val Val Val Gly Phe Val Val Leu Thr Ala Gln
      145      150      155      160
Glu Val Leu Gln Val Pro Val Val Val Leu Thr Gln Gln Leu Gln Lys
      165      170      175
Ala Gln Asp Gly Leu His Asp Glu His Gly Cys Ala His Leu Thr Ala
      180      185      190
Leu His Thr Phe Ala His Leu Val Pro Pro Ala Gln Ala Gly Ala Gln
      195      200      205
Arg Val Ala Gly *
      210      212

```

```

<210> 1170
<211> 51
<212> PRT
<213> Homo sapiens

```

```

<400> 1170
Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser
  1      5      10      15
Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu
      20      25      30
Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu
      35      40      45
Phe His *
      50

```

```

<210> 1171
<211> 157
<212> PRT
<213> Homo sapiens

```

```

<400> 1171
Met Leu Val Pro Leu Asn Leu Cys Leu Gln Ser Thr Leu Ala Leu Val
  1      5      10      15
Ser Leu Pro Leu Pro Gly Ile Gly Arg Ala Phe Cys Glu Trp Leu Ser
      20      25      30
Gly Thr Phe Lys Ala Arg Arg Gln Gly Pro Lys Ala Lys Arg Glu Leu
      35      40      45
Trp Asp Val Pro Ser Pro Val Arg Gly Trp Pro Trp Gly Phe Arg Leu
      50      55      60
Arg Gly Val Pro Gly Pro Val Ser Pro Ala Phe Gly Pro Phe Gly Glu
      65      70      75      80
Phe Gly Glu Glu Val Pro Thr Ala Arg Pro Gly Asp Val Arg Gly Ala
      85      90      95
Ala Leu Thr Phe Ile Val Gly Val Ser Ser Glu Val Ser Val Gln Arg
      100      105      110

```

```

Arg Ser Ala Gly Arg Ser His Arg Gly Arg Arg Arg Arg Ala Ser Cys
      115                      120                      125
Thr Ala Ala Pro Gly Gly Gly Val Thr Arg Arg Trp Lys Glu Tyr Cys
      130                      135                      140
Thr Gln Arg Ile Asn Asn Leu Val Lys Pro Phe Ser *
145                      150                      155 156

```

```

<210> 1172
<211> 69
<212> PRT
<213> Homo sapiens

```

```

<400> 1172
Met Asn Pro Tyr Ile Ser Ile Ile Val Phe Ile Val Phe Leu Cys Ser
 1      5      10      15
Glu Asn Tyr Pro Trp Asn Asn Met Leu Arg Ile Thr Gly Ser Ser Pro
      20      25      30
Tyr Leu His Phe Leu Ser Val Leu Gly Val Leu Val Asn Ser Tyr Val
      35      40      45
Leu Ile Leu Phe Asn Ser Glu Phe Leu Thr Gln His Phe Arg Glu Arg
      50      55      60
Ile Gln Ala Gly *
65      68

```

```

<210> 1173
<211> 75
<212> PRT
<213> Homo sapiens

```

```

<400> 1173
Met Cys Ser Leu Lys Phe Trp Ile Cys Phe Cys Gln Ala Val Ser Met
 1      5      10      15
His Leu Cys Ala Thr Gln Leu Ser Val Ser Leu Pro Ala Gly Ile Ser
      20      25      30
Met Phe Val Ser Gly Leu Val Cys Asp Ile Cys Val Trp Ser Gly Ser
      35      40      45
Gly Met Thr His Pro Tyr Trp Ser Arg Met Arg Val Glu Met Met Val
      50      55      60
Ala Gly Cys Phe Arg Glu Arg Asp Ala His *
65      70      74

```

```

<210> 1174
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1174
Met Leu Ser Ser Phe Phe Lys Ser Cys Phe Cys Val Ser Phe Trp Thr
 1      5      10      15
Leu Ser Ile Ala Thr Ser Ser Asn Leu Leu Ile Phe Ser Ser Ala Ile

```

```

          20          25          30
Ser Asn Leu Leu Leu Ile Leu Ser Ser Val Phe Ser Ile Leu Asp Ile
          35          40          45
Val Val Phe Ile Thr Arg Ser Met Ile Trp Phe Cys Phe His Pro Cys
          50          55          60
Ile Tyr Ile Thr Cys Pro Val Phe His Ser Ala Ser *
          65          70          75  76

```

<210> 1175
 <211> 59
 <212> PRT
 <213> Homo sapiens

```

          <400> 1175
Met Ser Phe Ala Phe Ser Leu Trp Tyr Pro Phe Leu Arg Asp Leu Arg
  1          5          10          15
Ser Cys Phe Lys Leu Ser Lys Leu Ser Cys His Ser Pro Ile Ser Phe
          20          25          30
Val Gln Tyr Thr Thr Met Ser Thr Arg Val Ser Cys Leu Asn Leu Leu
          35          40          45
Tyr Pro His Leu Arg Val Val Ser Ile His Ser
          50          55          59

```

<210> 1176
 <211> 55
 <212> PRT
 <213> Homo sapiens

```

          <400> 1176
Met His Leu Leu Cys Ser Gly His Lys Leu Cys Leu Cys Ile Val Tyr
  1          5          10          15
Ile Ser Phe Phe Leu Phe Phe Lys Val Tyr Gly Phe Cys Phe Leu His
          20          25          30
Ala Asn Ile Val Asn Tyr Thr Glu Asp Thr Thr Asp Ser Ile Tyr Lys
          35          40          45
Val Tyr Arg Asn Ile Ile *
          50          54

```

<210> 1177
 <211> 86
 <212> PRT
 <213> Homo sapiens

```

          <400> 1177
Met Leu Ser Met Leu Leu Arg Ala Val Phe Cys Cys Cys Arg Arg Leu
  1          5          10          15
His Leu Val Ser Ser Ile Leu Phe Cys Cys Ser Arg Asn Arg Thr Leu
          20          25          30
Ser Met Lys Glu Ala Asn Leu Leu Leu Arg Val Leu Ile Cys Ser Phe
          35          40          45

```

```

Ser Trp Val Arg Thr Ala Trp Met Leu Gly Ser Thr Ser Arg Thr Arg
  50          55          60
Gly Leu Ser Arg Leu Trp Leu Thr Val Thr Ala Val Met Pro Pro Met
  65          70          75          80
Pro Leu Ala Pro Pro *
                        85

```

```

<210> 1178
<211> 189
<212> PRT
<213> Homo sapiens

```

```

<400> 1178
Met Met Pro Leu Leu Ser Leu Ile Phe Ser Ala Leu Phe Ile Leu Phe
  1          5          10          15
Gly Thr Val Ile Val Gln Ala Phe Ser Asp Ser Asn Asp Glu Arg Glu
          20          25          30
Ser Ser Pro Pro Glu Lys Glu Glu Ala Gln Glu Lys Thr Gly Lys Thr
          35          40          45
Glu Pro Ser Phe Thr Lys Glu Asn Ser Ser Lys Ile Pro Lys Lys Gly
          50          55          60
Phe Val Glu Val Thr Glu Leu Thr Asp Val Thr Tyr Thr Ser Asn Leu
          65          70          75          80
Val Arg Leu Arg Pro Gly His Met Asn Val Val Leu Ile Leu Ser Asn
          85          90          95
Ser Thr Lys Thr Ser Leu Leu Gln Lys Phe Ala Leu Glu Val Tyr Thr
          100          105          110
Phe Thr Gly Ser Ser Cys Leu His Phe Ser Phe Leu Ser Leu Asp Lys
          115          120          125
His Arg Glu Trp Leu Glu Tyr Leu Leu Glu Phe Ala Gln Asp Ala Ala
          130          135          140
Pro Ile Pro Asn Gln Tyr Asp Lys His Phe Met Glu Arg Asp Tyr Thr
          145          150          155          160
Gly Tyr Val Leu Ala Leu Asn Gly His Lys Lys Tyr Phe Cys Leu Phe
          165          170          175
Lys Pro Gln Lys Thr Val Glu Glu Gly Gly Lys Pro *
          180          185          188

```

```

<210> 1179
<211> 55
<212> PRT
<213> Homo sapiens

```

```

<400> 1179
Met Ile Cys Lys Tyr Phe Phe Leu Ile Leu Trp Val Val Phe Ser Phe
  1          5          10          15
Phe Phe Met Phe Leu Asp Ala Gln Lys Phe Ile Ile Leu Met Lys Ser
          20          25          30
Asn Ser Ser Phe Leu Leu Leu Leu His Met Leu Leu Glu Ser Tyr Leu
          35          40          45
Arg Asn His Cys Gln Ile *
          50          54

```

<210> 1180
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1180
 Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys
 1 5 10 15
 His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys
 20 25 30
 Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile
 35 40 45
 Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp
 50 55 60
 Leu Met Pro Val Ile Pro Ala Ile Trp Glu Ala Glu Ala Arg Thr Ala
 65 70 75 80
 *

<210> 1181
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1181
 Met Asp Glu Val His Val Leu Gly Leu Ala Leu Leu Thr Val Leu Ile
 1 5 10 15
 Glu Leu Val Ser Pro Leu Asp Ser Leu Arg Arg His Ser Cys Tyr Ile
 20 25 30
 Thr His Thr Phe Ser Cys Asn His Thr Asn Ser His Phe Tyr Ile Leu
 35 40 45
 Ser Ile Ser Cys Thr Asn Trp Gly Leu Lys Val Tyr Lys Ile Phe Leu
 50 55 60
 Ser Cys Glu Phe *
 65 68

<210> 1182
 <211> 430
 <212> PRT
 <213> Homo sapiens

<400> 1182
 Met Ile Thr Lys Thr Pro Ala Gln Leu Arg Ser Val Ala Thr Ile Leu
 1 5 10 15
 Lys Thr Leu Cys Leu Ala Ser Pro Thr Val Ala Asn Val Lys Ala Pro
 20 25 30
 Pro Gln Val Ala Val Ala Ala Gly Thr Pro Asn Thr Ser Gly Ser Ile
 35 40 45
 His Glu Asn Pro Pro Lys Ala Lys Ala Thr Val Asn Val Lys Gln Ala
 50 55 60

Ala Lys Val Val Lys Ala Ser Ser Pro Ser Tyr Leu Ala Glu Gly Lys
 65 70 75 80
 Ile Arg Cys Leu Ala Gln Pro His Pro Gly Thr Gly Val Pro Arg Ala
 85 90 95
 Ala Ala Glu Leu Pro Leu Glu Ala Glu Lys Ile Lys Thr Gly Thr Gln
 100 105 110
 Lys Gln Ala Lys Thr Asp Met Ala Phe Lys Thr Ser Val Ala Val Glu
 115 120 125
 Met Ala Gly Ala Pro Ser Trp Thr Lys Val Ala Glu Glu Gly Asp Lys
 130 135 140
 Pro Pro His Gly Pro Arg Cys Pro Asn His Ala Cys Gln Arg Leu Gly
 145 150 155 160
 Gly Leu Ser Ala Pro Pro Trp Ala Lys Pro Glu Asp Arg Gln Thr Gln
 165 170 175
 Pro Gln Pro His Gly His Val Pro Gly Lys Thr Thr Gln Gly Gly Pro
 180 185 190
 Cys Pro Ala Cys Glu Val Gln Gly Met Leu Val Pro Pro Met Ala
 195 200 205
 Pro Thr Gly His Ser Thr Cys Asn Val Glu Ser Trp Gly Asp Asn Gly
 210 215 220
 Ala Thr Arg Ala Gln Pro Ser Met Pro Gly Gln Ala Val Pro Cys Gln
 225 230 235 240
 Glu Asp Thr Val Gly Ser Leu Leu Ala Ser Leu Cys Ala Glu Val Ala
 245 250 255
 Gly Val Leu Ala Ser Gln Glu Asp Leu Arg Thr Leu Leu Ala Lys Ala
 260 265 270
 Leu Ser Gln Gly Glu Val Trp Ala Ala Leu Asn Gln Ala Leu Ser Lys
 275 280 285
 Glu Val Leu Gly Ala Thr Val Thr Lys Ala Leu Pro Gln Ser Met Leu
 290 295 300
 Ser Met Ala Leu Val Lys Ala Leu Ser Trp Ser Glu Leu Arg Leu Thr
 305 310 315 320
 Leu Ser Arg Ala Leu Ser Arg Gly Glu Leu Arg Ala Glu Leu Thr Lys
 325 330 335
 Val Met Gln Gly Lys Leu Ala Glu Val Leu Ser Lys Ala Leu Thr Glu
 340 345 350
 Glu Glu Trp Val Ala Leu Ser Gln Ala Leu Cys Gln Gly Glu Leu Gly
 355 360 365
 Ala Leu Leu Ser Gln Ser Trp Cys Arg Val Ala Leu Arg Thr Gly Thr
 370 375 380
 Ile Leu Pro Lys Ala Ala Ser Lys Ser Thr Gly Ser Gly Val Thr Lys
 385 390 395 400
 Thr Pro Ala Leu Val Lys Val Ala Cys Arg Arg Ser Pro Ser Ala Ala
 405 410 415
 Trp Gly Pro Ser Leu Gly Pro Val Arg Pro Gln Thr Ser Lys
 420 425 430

<210> 1183
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1183
 Met Thr Phe Ile Leu Ser Arg Pro Pro Phe Phe Phe Leu Phe Ser Lys
 1 5 10 15
 Arg Ser Cys Ser Gly Ala Arg Trp Ser Arg Trp Pro Gln Phe Gly Tyr

			20					25					30				
Ser	Thr	Ser	Pro	Pro	Gly	Ser	Met	Phe	Phe	Ser	Ser	Pro	Pro	Ser	Arg		
		35					40					45					
Gly	Ile	Pro	Ala	*													
	50		52														

<210> 1184
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1184																	
Met	Ser	Met	Leu	His	Trp	Ile	His	Phe	Ile	Leu	His	Val	Ser	Ile	Val		
1				5					10					15			
Leu	Lys	Phe	Leu	Ser	Val	Lys	Cys	Ser	Ile	Ile	Tyr	Lys	Lys	Ser	Phe		
			20					25					30				
Ala	Ser	Ser	Ala	Phe	Phe	Leu	Val	Gln	Ala	Ser	Phe	Phe	His	Ile	Met		
		35					40					45					
Leu	Ser	Gln	Leu	Tyr	Phe	Gln	*										
	50					55											

<210> 1185
 <211> 294
 <212> PRT
 <213> Homo sapiens

<400> 1185																	
Met	Pro	Tyr	Val	Thr	Glu	Ala	Thr	Arg	Val	Gln	Leu	Val	Leu	Pro	Leu		
1				5					10					15			
Leu	Val	Ala	Glu	Ala	Ala	Ala	Ala	Pro	Ala	Phe	Leu	Glu	Ala	Phe	Ala		
			20					25					30				
Ala	Asn	Val	Leu	Glu	Pro	Arg	Glu	His	Ala	Leu	Leu	Thr	Leu	Leu	Leu		
		35					40					45					
Val	Tyr	Gly	Pro	Arg	Glu	Gly	Gly	Arg	Gly	Ala	Pro	Asp	Pro	Phe	Leu		
	50					55					60						
Gly	Val	Lys	Ala	Ala	Ala	Glu	Leu	Glu	Arg	Arg	Tyr	Pro	Gly	Thr			
	65				70				75					80			
Arg	Leu	Ala	Trp	Leu	Ala	Val	Arg	Ala	Glu	Ala	Pro	Ser	Gln	Val	Arg		
				85					90					95			
Leu	Met	Asp	Val	Val	Ser	Lys	Lys	His	Pro	Val	Asp	Thr	Leu	Phe	Phe		
			100					105					110				
Leu	Thr	Thr	Val	Trp	Thr	Arg	Pro	Gly	Pro	Glu	Val	Leu	Asn	Arg	Cys		
		115				120						125					
Arg	Met	Asn	Ala	Ile	Ser	Gly	Trp	Gln	Ala	Phe	Phe	Pro	Val	His	Phe		
	130					135					140						
Gln	Glu	Phe	Asn	Pro	Ala	Leu	Ser	Pro	Gln	Arg	Ser	Pro	Pro	Gly	Pro		
	145				150					155					160		
Pro	Gly	Ala	Gly	Pro	Asp	Pro	Pro	Ser	Pro	Pro	Gly	Ala	Asp	Pro	Ser		
				165					170					175			
Arg	Gly	Ala	Pro	Ile	Gly	Gly	Arg	Phe	Asp	Arg	Gln	Ala	Ser	Ala	Glu		
			180					185					190				
Gly	Cys	Phe	Tyr	Asn	Ala	Asp	Tyr	Leu	Ala	Ala	Arg	Ala	Arg	Leu	Ala		
		195					200					205					

Gly Glu Leu Ala Gly Gln Glu Glu Glu Glu Ala Leu Glu Gly Leu Glu
 210 215 220
 Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala
 225 230 235 240
 Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
 245 250 255
 Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu
 260 265 270
 Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu
 275 280 285
 Gln Ala Asn Ser Thr *
 290 293

<210> 1186
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1186
 Met Met Tyr Ile Leu Leu Val Phe Leu Thr Leu Trp Leu Leu Ile Glu
 1 5 10 15
 Met Ile His Cys Leu Gln Asn Gly Asp His Arg Arg Thr Arg Pro Pro
 20 25 30
 Thr Glu Thr Gly Trp Leu Pro Leu Arg Phe His Leu Arg Thr Gly Lys
 35 40 45
 Ile Leu Arg Tyr Leu Arg Gly Glu *
 50 55 56

<210> 1187
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 1187
 Met Asp Leu Asp Asn Ala Lys Tyr Ser Leu Leu Gly Phe Ala Leu Phe
 1 5 10 15
 Trp Val Val Val Gly Phe Phe Phe Val Cys Leu Phe Trp Phe Leu Val
 20 25 30
 Phe Leu Pro Trp Cys Lys Thr Val Glu Ser Cys Leu Phe Thr Gly Leu
 35 40 45
 Gly Ser Ile Glu Val Cys Val Ser Ser Val Arg Phe Leu Leu Arg Thr
 50 55 60
 Ile Cys Ile Phe Asn Asn Ser Thr Ser Ser Arg Pro Ser Arg Arg Asn
 65 70 75 80
 Glu Arg Gly Leu Val Ser Ser Pro Glu Leu Ala Leu Glu Cys Val His
 85 90 95
 Leu Ala Ala His Gly Leu Val Ala Leu Arg Gly Leu Ile Gln Leu Pro
 100 105 110
 Leu Gln Leu Pro Ala Val Gly Val Asp Ala Leu Gly Leu Leu Cys
 115 120 125
 Leu Leu Gln Leu Pro Leu Glu Leu Leu Asp Pro Gly Ile Ala Phe Leu
 130 135 140
 Cys Leu Leu Leu Val Leu Leu Gly His Leu Ala Leu Val Leu His Leu

145					150					155				160	
Gln	Gln	Asp	Phe	Leu	Gln	Leu	Leu	Val	Phe	Leu	Leu	Gln	Arg	Leu	Gly
				165					170					175	
Gly	Arg	Leu	Phe	Leu	Ser	Gly	Leu	Leu	Leu	Asp	Leu	Leu	Leu	*	
			180					185						190	

<210> 1188
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 1188

Met	Ser	Pro	Pro	Leu	Leu	Leu	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Pro	Leu
1				5					10					15	
Leu	Asn	Val	Glu	Pro	Ala	Gly	Ala	Thr	Leu	Ile	Arg	Ile	Pro	Leu	Arg
			20					25					30		
Gln	Val	His	Pro	Gly	Arg	Arg	Thr	Leu	Asn	Leu	Leu	Arg	Gly	Trp	Gly
		35					40					45			
Lys	Pro	Ala	Glu	Leu	Pro	Lys	Leu	Gly	Ala	Pro	Ser	Pro	Gly	Asp	Lys
	50					55					60				
Pro	Ala	Ser	Val	Pro	Leu	Ser	Lys	Phe	Leu	Asp	Ala	Gln	Tyr	Phe	Gly
	65				70					75					80
Glu	Ile	Gly	Leu	Gly	Thr	Pro	Pro	Gln	Asn	Phe	Thr	Val	Ala	Phe	Asp
			85					90						95	
Thr	Gly	Ser	Ser	Asn	Leu	Trp	Val	Pro	Ser	Arg	Arg	Cys	His	Phe	Phe
			100					105					110		
Ser	Val	Pro	Cys	Trp	Phe	His	His	Arg	Phe	Asn	Pro	Asn	Ala	Ser	Ser
	115					120						125			
Ser	Phe	Lys	Pro	Ser	Gly	Thr	Lys	Phe	Ala	Ile	Gln	Tyr	Gly	Thr	Gly
	130				135						140				
Arg	Val	Asp	Gly	Ile	Leu	Ser	Glu	Asp	Lys	Leu	Thr	Ile	Gly	Gly	Ile
145				150					155						160
Lys	Gly	Ala	Ser	Val	Ile	Phe	Gly	Glu	Ala	Leu	Trp	Gly	Ile	Gln	Pro
			165					170						175	
Gly	Ser	Ser	Leu	Phe	Pro	Ala	Pro	Met	Gly	Tyr	Trp	Gly	Leu	Gly	Phe
			180				185						190		
Pro	Ile	Leu	Val	Leu	Trp	Glu	Gly	Ile	Ser	Ala	Pro	Ala	Gly	Cys	Thr
	195					200						205			
Gly	Gly	Ala	Gly	Ala	Ile	Gly	*								
210						215									

<210> 1189
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 1189

Met	Ala	Leu	Arg	Gly	Ala	Leu	Gln	Ser	Gln	Ser	Gly	Leu	Leu	Ser	Leu
1				5					10					15	
Leu	Leu	Leu	Gly	Leu	Gly	Asp	Lys	Asp	Pro	Val	Val	Arg	Cys	Ser	Ala
			20					25					30		
Ser	Phe	Ala	Val	Gly	Asn	Ala	Ala	Tyr	Gln	Ala	Gly	Pro	Leu	Gly	Pro
		35					40					45			

```

Ala Leu Ala Ala Ala Val Pro Ser Met Thr Gln Leu Leu Gly Asp Pro
   50                      55                      60
Gln Ala Gly Ile Arg Arg Asn Val Ala Ser Ala Leu Gly Asn Leu Gly
   65                      70                      75                      80
Rro Glu Gly Leu Gly Glu Glu Leu Leu Gln Cys Glu Val Pro Gln Arg
                      85                      90                      95
Leu Leu Glu Met Ala Cys Gly Asp Pro Gln Pro Asn Val Lys Glu Ala
                      100                    105                    110
Ala Leu Ile Ala Leu Arg Ser Leu Gln Gln Glu Pro Gly Ile His Gln
                      115                    120                    125
Val Leu Val Ser Leu Gly Ala Ser Glu Lys Leu Ser Leu Leu Ser Leu
                      130                    135                    140
Gly Asn Gln Ser Leu Pro His Ser Ser Pro Arg Pro Ala Ser Ala Lys
                      145                    150                    155                    160
His Cys Arg Lys Leu Ile His Leu Leu Arg Pro Ala His Ser Met *
                      165                    170                    175

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<210> 1190
<211> 58
<212> PRT
<213> Homo sapiens

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<400> 1190
Met Ala Gly Thr Ala Gln Leu Leu Gly Leu Lys Gln Leu Ile Gly Leu
   1                      5                      10                      15
Glu Leu Leu Thr Ala Gln Cys Gly Gln Ile Thr Gly Tyr Arg Asp Arg
                      20                      25                      30
Arg Glu Glu Leu Leu Pro Pro Arg Phe Leu Ala Thr Gly Pro Pro Ser
                      35                      40                      45
Cys His Pro Pro Ser Gln Thr Val Pro *
   50                      55                      57

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<210> 1191
<211> 88
<212> PRT
<213> Homo sapiens

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```

<400> 1191
Met Gly Ile Cys Leu Thr Trp Lys Pro Pro Thr Gly Val Ser Val Ile
   1                      5                      10                      15
Leu Ile Leu Leu Ser Glu Leu His Met Lys Ser Pro Gly Arg Leu Lys
                      20                      25                      30
Pro Lys Ser Ser Pro His Phe Ser Thr Val Leu Thr Pro Leu Thr Phe
                      35                      40                      45
Met Tyr Pro Gly Leu Ala Leu Leu His Ser Leu Tyr Trp His Trp Gln
   50                      55                      60
Glu Asn Gly Glu Ile Leu Cys Arg Ala Ala Glu Pro Lys Phe Ala Gln
   65                      70                      75                      80
Glu Ser Lys Cys Thr Ile Tyr *
                      85                      87

```

<210> 1192
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1192
 Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
 1 5 10 15
 Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
 20 25 30
 Arg Pro Arg Phe Leu Glu Tyr Ser Thr Ser Glu Cys His Phe Phe Asn
 35 40 45
 Gly Thr Glu Arg Val Arg Tyr Leu Asp Arg Tyr Phe His Asn Gln Glu
 50 55 60
 Glu Asn Val Arg Phe Asp Ser Asp Val Gly Glu Phe Arg Ala Val Thr
 65 70 75 80
 Glu Leu Gly Arg Pro Asp Ala Glu Tyr Trp Asn Ser Gln Lys Asp Leu
 85 90 95
 Leu Gly Thr Ala Arg Arg Thr Ser Trp Ser Arg Ser Gly Ala Gly Trp
 100 105 110
 Thr Thr Thr Ala Asp Thr Thr Thr Gly Leu Trp Arg Ala Ser Gln Cys
 115 120 125
 Ser Gly Glu Ser Ile Leu Arg *
 130 135

<210> 1193
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1193
 Met Leu Ala Ser Arg Gln Ala Cys Cys Pro Pro Val Ser Ser Leu Phe
 1 5 10 15
 Leu Pro Leu Ser Pro Thr Leu Ser Gly Phe Phe Thr Val Cys Ser Val
 20 25 30
 Ser His Leu His Val Pro Arg Gly Pro Ala Arg Leu Cys Pro Arg Met
 35 40 45
 Ser His Gly Ser Pro Ser Gly Leu Pro Ala Glu Pro Ser Glu His Gly
 50 55 60
 Cys Leu Leu Val Val Gly Leu Gln Gln Asn Cys Thr Arg Leu Thr Ser
 65 70 75 80
 Pro Ile Leu Ser Ser Arg Gly Leu Arg Val Gln Arg Arg Val Asn Leu
 85 90 95
 Ala Asp *
 98

<210> 1194
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1194

Met Phe Ser Pro Ser Phe Gln Gly Ile Ile Thr Lys Val Arg Cys Val
 1 5 10 15
 Cys Val Ser Leu Ser Leu Cys Val Cys Val Cys Val Cys Val Cys Val
 20 25 30
 Cys Val Tyr Lys Glu Pro Gly Met Arg Ala Gly Arg Gly Gly Ser Arg
 35 40 45
 Leu *
 49

<210> 1195
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1195
 Met Gln Gly Val Arg Val Ser Phe Gly Trp Ala Met Gly Leu Ala Trp
 1 5 10 15
 Gly Ser Cys Ala Leu Glu Ala Phe Ser Gly Thr Leu Leu Leu Ser Ala
 20 25 30
 Ala Trp Thr Leu Ser Leu Ser Pro Pro Ile Cys Gly His Leu Ser Pro
 35 40 45
 Gln Gln Val Gly Gly Arg Gly Gly Asp *
 50 55 57

<210> 1196
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 1196
 Met Leu Pro Asn Ser Ser Ser Leu Trp Leu Val Met Arg Ile Leu Ile
 1 5 10 15
 Phe Cys Val Ile Pro Ala Gly Gly Val Leu Gly Ala Pro Thr Ala Ala
 20 25 30
 Gly Leu Arg Pro Thr Gly Asp Val Ala Leu Arg Arg Pro Ala Gly Ser
 35 40 45
 Val Glu Pro Ser Gly Ser Arg Gly Leu Arg Ala Ser Val Cys Gln Arg
 50 55 60
 Leu Ser Met Phe Leu Ala His Phe Leu Arg Gly His Phe Leu Trp Trp
 65 70 75 80
 Ile Leu Asp Gly Gln Arg Leu Gly Phe Pro Leu Ser Leu Ala Thr Trp
 85 90 95
 Asn Arg Arg Lys Lys Ser Leu Gln His Leu Leu His Lys His Val Leu
 100 105 110
 Pro Val Arg Arg His Ala Gly Pro Cys Arg Gly Pro Gln Thr Thr Ala
 115 120 125
 Arg Gly Pro Arg
 130 132

<210> 1197
 <211> 64

<212> PRT
 <213> Homo sapiens

<400> 1197
 Met Pro Tyr Leu Ile Leu Phe Phe Ala Val Tyr Ile Leu Tyr Lys Ile
 1 5 10 15
 Leu Val Lys Val His Leu Phe Ile Ala Glu Ile Ala Leu Tyr Asp Phe
 20 25 30
 Leu Lys Phe Phe Glu Leu Tyr Gly Ile Cys Met Phe Lys Thr Leu Thr
 35 40 45
 Cys Leu Val Val Thr Thr Leu Ile Phe Ile Asn Leu Leu Ser Leu *
 50 55 60 63

<210> 1198
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1198
 Met Leu Gly Pro Pro Glu Ala Arg Leu Ser Leu Cys Ile Leu Leu Trp
 1 5 10 15
 Ile Ser Ile Leu Cys Pro Trp Tyr Arg Phe Thr Leu Tyr Cys Ser Ser
 20 25 30
 Trp Pro Tyr Pro Ile Phe Asp Ser Gly Tyr Arg Pro Leu Phe Gly Thr
 35 40 45
 Thr Leu Leu Phe *
 50 52

<210> 1199
 <211> 50
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(50)
 <223> Xaa = any amino acid or nothing

<400> 1199
 Met Leu Arg Leu Gly Leu Cys Ala Ala Ala Leu Leu Cys Val Cys Arg
 1 5 10 15
 Pro Gly Ala Val Arg Ala Asp Cys Trp Leu Ile Glu Gly Asp Lys Gly
 20 25 30
 Tyr Val Trp Leu Ala Ile Cys Asn Gln Asn Gln Pro Ala Tyr Glu Thr
 35 40 45
 Xaa Pro
 50

<210> 1200
 <211> 49
 <212> PRT

<213> Homo sapiens

<400> 1200

```

Met Gly Trp Ser Cys Leu Ala Ile Leu Ser Ser Ala Ile Gly His Leu
 1           5           10           15
Ile Cys Leu Trp Pro Phe Ala Met Val Val Ala Leu Phe Pro Tyr Leu
           20           25           30
Gly Tyr Phe Ser Gly Ser Leu Ser Thr Gln Ile Gly Ser Asp Leu Pro
      35           40           45           48

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*

<210> 1201

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1201

```

Met Trp Ala Gly Tyr Val Ile Tyr Thr Leu Phe Cys Arg Phe Ser Phe
 1           5           10           15
Ser Leu Ile Ser Ile Arg Ile Arg Lys Leu Gly Ser Ile Gly Phe Glu
           20           25           30
Leu Pro Leu Gly Asn Asn Ser Gln Leu Gly Cys Pro Leu *
      35           40           45

```

<210> 1202

<211> 332

<212> PRT

<213> Homo sapiens

<400> 1202

```

Met Pro Leu Pro Trp Ser Leu Ala Leu Pro Leu Leu Leu Ser Trp Val
 1           5           10           15
Ala Gly Gly Phe Gly Asn Ala Ala Ser Ala Arg His His Gly Leu Leu
           20           25           30
Ala Ser Ala Arg Gln Pro Gly Val Cys His Tyr Gly Thr Lys Leu Ala
      35           40           45
Cys Cys Tyr Gly Trp Arg Arg Asn Ser Lys Gly Val Cys Glu Ala Thr
      50           55           60
Cys Glu Pro Gly Cys Lys Phe Gly Glu Cys Val Gly Pro Asn Lys Cys
      65           70           75           80
Arg Cys Phe Pro Gly Tyr Thr Gly Lys Thr Cys Ser Gln Asp Val Asn
           85           90           95
Glu Cys Gly Met Lys Pro Arg Pro Cys Gln His Arg Cys Val Asn Thr
           100           105           110
His Gly Ser Tyr Lys Cys Phe Cys Leu Ser Gly His Met Leu Met Pro
      115           120           125
Asp Ala Thr Cys Val Asn Ser Arg Thr Cys Ala Met Ile Asn Cys Gln
      130           135           140
Tyr Ser Cys Glu Asp Thr Glu Glu Gly Pro Gln Cys Leu Cys Pro Ser
      145           150           155           160
Ser Gly Leu Arg Leu Ala Pro Asn Gly Arg Asp Cys Leu Asp Ile Asp

```


				165					170					175			
Glu	Cys	Ala	Ser	Gly	Lys	Val	Ile	Cys	Pro	Tyr	Asn	Arg	Arg	Cys	Val		
			180					185					190				
Asn	Thr	Phe	Gly	Ser	Tyr	Tyr	Cys	Lys	Cys	His	Ile	Gly	Phe	Glu	Leu		
		195					200					205					
Gln	Tyr	Ile	Ser	Gly	Arg	Tyr	Asp	Cys	Ile	Asp	Ile	Asn	Glu	Cys	Thr		
	210					215					220						
Met	Asp	Ser	His	Thr	Cys	Ser	His	His	Ala	Asn	Cys	Phe	Asn	Thr	Gln		
225						230				235					240		
Gly	Ser	Phe	Lys	Cys	Lys	Cys	Lys	Gln	Gly	Tyr	Lys	Gly	Asn	Gly	Leu		
			245					250						255			
Arg	Cys	Ser	Ala	Ile	Pro	Glu	Asn	Ser	Val	Lys	Glu	Val	Leu	Arg	Ala		
		260					265						270				
Pro	Gly	Thr	Ile	Lys	Asp	Arg	Ile	Lys	Lys	Leu	Leu	Ala	His	Lys	Asn		
	275						280					285					
Ser	Met	Lys	Lys	Lys	Ala	Lys	Ile	Lys	Asn	Val	Thr	Pro	Glu	Pro	Thr		
	290					295				300							
Arg	Thr	Pro	Thr	Pro	Lys	Val	Asn	Leu	Gln	Pro	Phe	Asn	Tyr	Glu	Glu		
305					310				315						320		
Ile	Val	Ser	Arg	Gly	Gly	Asn	Ser	His	Gly	Gly	*						
				325					330	331							

<210> 1203

<211> 825

<212> PRT

<213> Homo sapiens

<400> 1203

Met	Ala	Arg	Leu	Gly	Asn	Cys	Ser	Leu	Thr	Trp	Ala	Ala	Leu	Ile	Ile		
1				5					10					15			
Leu	Leu	Leu	Pro	Gly	Ser	Leu	Glu	Glu	Cys	Gly	His	Ile	Ser	Val	Ser		
			20					25					30				
Ala	Pro	Ile	Val	His	Leu	Gly	Asp	Pro	Ile	Thr	Ala	Ser	Cys	Ile	Ile		
		35				40						45					
Lys	Gln	Asn	Cys	Ser	His	Leu	Asp	Pro	Glu	Pro	Gln	Ile	Leu	Trp	Arg		
	50					55					60						
Leu	Gly	Ala	Glu	Leu	Gln	Pro	Gly	Gly	Arg	Gln	Gln	Arg	Leu	Ser	Asp		
65					70				75					80			
Gly	Thr	Gln	Glu	Ser	Ile	Ile	Thr	Leu	Pro	His	Leu	Asn	His	Thr	Gln		
				85				90					95				
Ala	Phe	Leu	Ser	Cys	Cys	Leu	Asn	Trp	Gly	Asn	Ser	Leu	Gln	Ile	Leu		
		100					105					110					
Asp	Gln	Val	Glu	Leu	Arg	Ala	Gly	Tyr	Pro	Pro	Ala	Ile	Pro	His	Asn		
	115					120					125						
Leu	Ser	Cys	Leu	Met	Asn	Leu	Thr	Thr	Ser	Ser	Leu	Ile	Cys	Gln	Trp		
	130					135					140						
Glu	Pro	Gly	Pro	Glu	Thr	His	Leu	Pro	Thr	Ser	Phe	Thr	Leu	Lys	Ser		
145					150				155					160			
Phe	Lys	Ser	Arg	Gly	Asn	Cys	Gln	Thr	Gln	Gly	Asp	Ser	Ile	Leu	Asp		
			165					170					175				
Cys	Val	Pro	Lys	Asp	Gly	Gln	Ser	His	Cys	Cys	Ile	Pro	Arg	Lys	His		
		180					185						190				
Leu	Leu	Leu	Tyr	Gln	Asn	Met	Gly	Ile	Trp	Val	Gln	Ala	Glu	Asn	Ala		
	195					200					205						
Leu	Gly	Thr	Ser	Met	Ser	Pro	Gln	Leu	Cys	Leu	Asp	Pro	Met	Asp	Val		
	210					215					220						

Val	Lys	Leu	Glu	Pro	Pro	Met	Leu	Arg	Thr	Met	Asp	Pro	Ser	Pro	Glu
225					230					235					240
Ala	Ala	Pro	Pro	Gln	Ala	Gly	Cys	Leu	Gln	Leu	Cys	Trp	Glu	Pro	Trp
				245					250					255	
Gln	Pro	Gly	Leu	His	Ile	Asn	Gln	Lys	Cys	Glu	Leu	Arg	His	Lys	Pro
			260					265					270		
Gln	Arg	Gly	Glu	Ala	Ser	Trp	Ala	Leu	Val	Gly	Pro	Leu	Pro	Leu	Glu
		275					280					285			
Ala	Leu	Gln	Tyr	Glu	Leu	Cys	Gly	Leu	Leu	Pro	Ala	Thr	Ala	Tyr	Thr
	290					295					300				
Leu	Gln	Ile	Arg	Cys	Ile	Arg	Trp	Pro	Leu	Pro	Gly	His	Trp	Ser	Asp
305					310					315					320
Trp	Ser	Pro	Ser	Leu	Glu	Leu	Arg	Thr	Thr	Glu	Arg	Ala	Pro	Thr	Val
				325					330					335	
Arg	Leu	Asp	Thr	Trp	Trp	Arg	Gln	Arg	Gln	Leu	Asp	Pro	Arg	Thr	Val
			340					345					350		
Gln	Leu	Phe	Trp	Lys	Pro	Val	Pro	Leu	Glu	Glu	Asp	Ser	Gly	Arg	Ile
		355					360					365			
Gln	Gly	Tyr	Val	Val	Ser	Trp	Arg	Pro	Ser	Gly	Gln	Ala	Gly	Ala	Ile
	370					375					380				
Leu	Pro	Leu	Cys	Asn	Thr	Thr	Glu	Leu	Ser	Cys	Thr	Phe	His	Leu	Pro
385					390					395					400
Ser	Glu	Ala	Gln	Glu	Val	Ala	Leu	Val	Ala	Tyr	Asn	Ser	Ala	Gly	Thr
				405					410					415	
Ser	Arg	Pro	Thr	Pro	Val	Val	Phe	Ser	Glu	Ser	Arg	Gly	Pro	Ala	Leu
			420					425					430		
Thr	Arg	Leu	His	Ala	Met	Ala	Arg	Asp	Pro	His	Ser	Leu	Trp	Val	Gly
		435					440					445			
Trp	Glu	Pro	Pro	Asn	Pro	Trp	Pro	Gln	Gly	Tyr	Val	Ile	Glu	Trp	Gly
	450					455					460				
Leu	Gly	Pro	Pro	Ser	Ala	Ser	Asn	Ser	Asn	Lys	Thr	Trp	Arg	Met	Glu
465					470					475					480
Gln	Asn	Gly	Arg	Ala	Thr	Gly	Phe	Leu	Leu	Lys	Glu	Asn	Ile	Arg	Pro
				485					490					495	
Phe	Gln	Leu	Tyr	Glu	Ile	Ile	Val	Thr	Pro	Leu	Tyr	Gln	Asp	Thr	Met
			500					505					510		
Gly	Pro	Ser	Gln	His	Val	Tyr	Ala	Tyr	Ser	Gln	Glu	Met	Ala	Pro	Ser
		515					520					525			
His	Ala	Pro	Glu	Leu	His	Leu	Lys	His	Ile	Gly	Lys	Thr	Trp	Ala	Gln
	530					535					540				
Leu	Glu	Trp	Val	Pro	Glu	Pro	Pro	Glu	Leu	Gly	Lys	Ser	Pro	Leu	Thr
545					550					555					560
His	Tyr	Thr	Ile	Phe	Trp	Thr	Asn	Ala	Gln	Asn	Gln	Ser	Phe	Ser	Ala
				565					570					575	
Ile	Leu	Asn	Ala	Ser	Ser	Arg	Gly	Phe	Val	Leu	His	Gly	Leu	Glu	Pro
			580					585					590		
Ala	Ser	Leu	Tyr	His	Ile	His	Leu	Met	Ala	Ala	Ser	Gln	Ala	Gly	Ala
		595					600					605			
Thr	Asn	Ser	Thr	Val	Leu	Thr	Leu	Met	Thr	Leu	Thr	Pro	Ala	Pro	Thr
	610					615					620				
Gly	Arg	Ile	Pro	Ser	Gly	Gln	Val	Ser	Gln	Thr	Gln	Leu	Thr	Ala	Ala
625					630					635					640
Trp	Ala	Pro	Gly	Cys	Pro	Gln	Ser	Trp	Arg	Arg	Met	Pro	Ser	Ser	Cys
				645					650					655	
Pro	Ala	Leu	Ala	Arg	His	Pro	Ser	Pro	Ser	Ser	Gln	Cys	Trp	Arg	Arg
			660					665					670		
Met	Lys	Arg	Ser	Arg	Cys	Pro	Gly	Ser	Pro	Ile	Thr	Ala	Gln	Arg	Pro
		675					680					685			
Val	Ala	Ser	Pro	Leu	Trp	Ser	Arg	Pro	Met	Cys	Ser	Arg	Gly	Thr	Gln

690		695		700
Glu Gln Phe Pro Pro Ser Pro Asn Pro Ser Leu Ala Pro Ala Ile Arg				
705		710		715
Ser Phe Met Gly Ser Cys Trp Ala Ala Pro Gln Ala Gln Gly Gln Gly				
	725		730	
Thr Ile Ser Ala Val Thr Pro Leu Ser Pro Ser Trp Arg Ala Ser Pro				
	740		745	
Pro Ala Pro Ser Pro Met Arg Thr Ser Gly Ser Arg Pro Ala Pro Trp				
	755		760	
Gly Pro Leu Val Thr Pro Ser Pro Lys Ser Gln Glu Asp Asp Cys Val				
	770		775	
Phe Gly Pro Leu Leu Asn Phe Pro Pro Ser Cys Arg Gly Ser Gly Ser				
785		790		795
Met Gly Trp Arg Arg Trp Gly Ala Ser Arg Ala Ser Leu Gly Phe Pro				
	805		810	
Ser Trp Ala Cys Leu Leu Lys Ala *				
	820		824	

<210> 1204
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1204
Met Leu Leu Phe Ser Ser Arg Phe Ile Met Phe Leu Trp Pro Pro Val
1 5 10 15
Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met
20 25 30
Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu *
35 40 45 47

<210> 1205
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1205
Met Gly Ser Phe Ser Phe Ile Leu Val Leu Phe Ile Asp Cys Leu Cys
1 5 10 15
Met Phe Pro Ser Val Leu Val Gln Leu Leu Cys Thr Tyr Ser Ser Leu
20 25 30
Met Lys Thr Pro Leu Trp Leu Gln Ala Arg Ser Ser His *
35 40 45

<210> 1206
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1206

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Met Gln Trp Cys Asn Leu Thr Ala Thr Ser Ala Phe Gln Ile Glu Ala
 1          5          10          15
Ile Leu Leu Pro Gln Leu Ser Pro Val Ala Gly Ile Thr Gly Thr Cys
          20          25          30
Tyr His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His
          35          40          45
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro
          50          55          60
Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr Ser Val Ser His His Ala
          65          70          75          80
Gln Pro Leu Lys Gly Thr Phe *
          85          87

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<210> 1207
<211> 186
<212> PRT
<213> Homo sapiens

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<400> 1207
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
 1          5          10          15
Val Met Ser Pro Cys Gly Gly Glu Asp Ile Val Ala Asp His Val Ala
          20          25          30
Ser Tyr Gly Val Asn Leu Tyr Gln Ser Tyr Gly Pro Ser Gly Gln Tyr
          35          40          45
Ser His Glu Phe Asp Gly Asp Glu Glu Phe Tyr Val Asp Leu Glu Arg
          50          55          60
Lys Glu Thr Val Trp Gln Leu Pro Leu Phe Arg Arg Phe Arg Arg Phe
          65          70          75          80
Asp Pro Gln Phe Ala Leu Thr Asn Ile Ala Val Leu Lys His Asn Leu
          85          90          95
Asn Ile Val Ile Lys Arg Ser Asn Ser Thr Ala Ala Thr Asn Glu Val
          100          105          110
Pro Glu Val Thr Val Phe Ser Lys Ser Pro Val Thr Leu Gly Gln Pro
          115          120          125
Asn Thr Leu Ile Cys Leu Val Asp Asn Ile Phe Pro Pro Val Val Asn
          130          135          140
Ile Thr Trp Leu Ser Asn Gly His Ser Val Thr Glu Gly Val Ser Glu
          145          150          155          160
Thr Arg Pro Ser Ser Pro Lys Ser Asp His Phe Leu Leu Gln Asp Gln
          165          170          175
Val Thr Ser Pro Ser Phe Pro Phe Glu *
          180          185

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<210> 1208
<211> 46
<212> PRT
<213> Homo sapiens

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<400> 1208
Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu
 1          5          10          15
Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser

```

			20						25					30
Pro	Ser	Ser	Arg	Met	Trp	Lys	Ser	Ile	Ile	Phe	Phe	Leu	*	
			35				40					45		

<210> 1209
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 1209

Met	Ala	Leu	Leu	Val	Pro	Leu	Ala	Leu	Leu	Val	Ile	Gln	Ala	His	Leu
1				5					10					15	
Val	Leu	Ser	Val	Gln	Leu	Glu	Arg	Val	Val	Thr	Glu	Glu	Lys	Val	Ala
			20					25					30		
Leu	Leu	Ala	Leu	Leu	Val	Leu	Pro	Val	Leu	Leu	Val	Pro	Glu	Val	Leu
		35					40					45			
Leu	Val	Leu	Lys	Ala	His	Val	Val	Thr	Lys	Val	Lys	Gln	Val	Asn	Val
	50					55					60				
Glu	Leu	Leu	Ala	Ser	Lys	Asp	Ile	Glu	Asp	Ser	Leu	Val	Ile	Gln	Val
65					70					75				80	
Pro	Gln	Val	Leu	Gln	Ala	Leu	Leu	Val	Ser	Arg	Val	Gln	Ser	Ala	Val
				85					90					95	
Gln	Asp	Leu	Gln	Ala	Pro	Glu	Asp	Leu	Leu	Asp	Pro	Val	Asp	Leu	Leu
		100						105					110		
Ala	Lys	Met	Glu	Pro	Val	Asp	Ile	Gln	Val	Pro	Leu	Asp	His	Gln	Gly
	115						120					125			
Leu	Glu	Val	Thr	Glu	Val	Lys	Glu	Asp	Leu	Arg	Ala	Pro	Gln	Ala	Thr
130						135					140				
Gln	Gly	Asn	Gln	Ala	Leu	Leu	Asp	Leu	Leu	Val	Pro	Leu	Val	Leu	Ala
145					150					155				160	
Val	Val	Val	Leu	Glu	Pro	Leu	Pro	Leu	Leu	Gly	Leu	Glu	Val	Lys	Lys
				165					170					175	
Leu	Ala	Val	Leu	Pro	Arg	Ile	Met	Glu	Met	Asn	Gln	Trp	Ile	Ser	Lys
		180						185					190		
Ser	Thr	Pro	Met	Arg	Leu	*									
		195			198										

<210> 1210
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1210

Met	Leu	Val	Thr	Arg	Pro	Ser	Gly	Asn	Thr	Trp	Ile	Pro	Phe	Phe	Cys
1				5					10					15	
Trp	Leu	Leu	Phe	Cys	Val	Val	Glu	Leu	Leu	Ser	Pro	Gly	Asn	Leu	Gly
			20					25					30		
Pro	Ser	Val	Leu	Glu	Val	Val	Leu	Pro	Asp	Val	Phe	Lys	Leu	Asp	Leu
		35					40					45			
Leu	Ser	Ser	Leu	Leu	Asp	Val	Gly	Ser	Leu	*					
	50						55		58						

<210> 1211
 <211> 227
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(227)
 <223> Xaa = any amino acid or nothing

<400> 1211
 Met Ala Ser Ile Cys Ser Trp Arg Val Met Leu Ala Trp Ala Ala Cys
 1 5 10 15
 Trp Val Arg Ala His Ala Ala Leu Ser Gly His Pro Arg Ser Thr Phe
 20 25 30
 Ser Leu Trp Leu Ser Gly Ile Ser Leu Pro Xaa Pro Ile Phe Leu Pro
 35 40 45
 Met Ala Val Ser Leu Leu Thr Pro Lys Asp Val Lys Tyr Ala Arg Ser
 50 55 60
 Pro Asn Cys Phe Lys Ala Ala Leu Asn Ile Pro Asp Pro Gly Ala Val
 65 70 75 80
 His Leu Ile Ile Ala Leu Leu Leu Thr Asp Gly Ala Ile Pro Leu Leu
 85 90 95
 Gln Pro Ala Arg Val Lys Lys Ser Asn Ala His Val Phe Leu His Phe
 100 105 110
 Ala Gly Gly Asp Leu Leu Pro Ser Asn Gly Gly His Lys Ile Leu Ile
 115 120 125
 Trp Ser Arg Gly Trp Arg Gln Gly Leu Gly Gly Phe Gly Ile Ile Ile
 130 135 140
 Leu Ala Asp Asn Asp Leu Val Trp Ser Trp Gly Gln Ser Trp Arg His
 145 150 155 160
 Gly Cys Leu Leu Gly Val Gly Ala Leu Ser Ala Leu Leu Leu His His
 165 170 175
 Leu Asn Pro His Pro Tyr Leu Val Leu Gly Cys Pro Gly Pro Ala Gly
 180 185 190
 Lys Glu Ala Pro Pro Pro Ser Pro Val Cys His Pro Pro His Gln Thr
 195 200 205
 Arg Pro Pro Ser Gln Leu Pro His Ser Pro Gln Thr Phe His Ser Ala
 210 215 220
 Pro Glu *
 225 226

<210> 1212
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1212
 Met Cys Val Ser Val Arg Val Cys Val Cys Val Cys Val Cys Ala Arg
 1 5 10 15
 Val Cys Ala Arg Leu Cys Val Cys Val His Ala Arg Leu Cys Val His
 20 25 30
 Val Arg Val Ser Ala Arg Val Ser Val Tyr Val Cys Thr Arg Val Ser
 35 40 45
 Val Cys Val His Ala Arg Ala Arg His His Arg Ser Ile *

50

55

60 61

<210> 1213
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1213
 Met Phe Arg Arg Leu Thr Phe Ala Gln Leu Leu Phe Ala Thr Val Leu
 1 5 10 15
 Gly Ile Ala Gly Gly Val Tyr Ile Phe Gln Pro Val Phe Glu Gln Tyr
 20 25 30
 Ala Lys Asp Gln Lys Glu Leu Lys Glu Lys Met Gln Leu Val Gln Glu
 35 40 45
 Ser Glu Glu Lys Lys Ser *
 50 54

<210> 1214
 <211> 642
 <212> PRT
 <213> Homo sapiens

<400> 1214
 Met Thr Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe
 1 5 10 15
 Leu Asp Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro
 20 25 30
 Thr Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser
 35 40 45
 Gly Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys
 50 55 60
 Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr
 65 70 75 80
 Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn
 85 90 95
 Val Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu
 100 105 110
 Thr Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr
 115 120 125
 Ala Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys
 130 135 140
 Phe Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile
 145 150 155 160
 Cys Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln Asn
 165 170 175
 Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu
 180 185 190
 Ile Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser
 195 200 205
 Glu Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile
 210 215 220
 Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg
 225 230 235 240

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Ser Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln Arg
      245                      250                      255
Ser Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys Asp
      260                      265                      270
Cys Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn Leu
      275                      280                      285
Lys Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile Ala
      290                      295                      300
Lys Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr Lys
305                      310                      315                      320
Ser Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr Ser
      325                      330                      335
Asp Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn Gly
      340                      345                      350
Pro His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu Val
      355                      360                      365
Arg Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu Gln
      370                      375                      380
Tyr Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp Tyr
385                      390                      395                      400
Pro Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser Lys
      405                      410                      415
Ala Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile Ala
      420                      425                      430
Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg Ser
      435                      440                      445
Cys Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu Lys
      450                      455                      460
Gln Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu Thr
465                      470                      475                      480
Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe Leu Ala Glu Phe
      485                      490                      495
Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala Arg
      500                      505                      510
Lys Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro Tyr
      515                      520                      525
Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly Ser
      530                      535                      540
Asn Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg Lys
545                      550                      555                      560
Tyr Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp
      565                      570                      575
Arg Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr Arg
      580                      585                      590
Cys Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met
      595                      600                      605
Glu Glu Gly Thr Arg Ala Phe Gly Glu Cys Cys Cys Lys Asp Leu Thr
      610                      615                      620
Lys His Lys Arg Cys Pro Arg Leu His His Ser Glu Ile Glu His Cys
625                      630                      635                      640
Lys *
641

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<210> 1215
<211> 85
<212> PRT
<213> Homo sapiens

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<400> 1215
 Met Leu Phe Leu Thr Leu Ile Ser Phe Cys Gly Phe Leu Leu Leu His
 1 5 10 15
 Arg Leu Thr Ser Met Val Arg Leu Phe Leu Gly Ala Ala Ile Gln Lys
 20 25 30
 Ile Leu Ser Lys Arg Leu Glu Phe Ser Leu Leu Pro Leu Val Ser Phe
 35 40 45
 Ala Gly Ser Val Asn Met Ala Gly Pro Cys Thr Ala Asn Ala Gly Pro
 50 55 60
 His Gly Gly Leu Gly Lys Pro Gly Arg Leu Cys Gly Ser Phe Arg Ser
 65 70 75 80
 Ser Arg Ser Gln *
 84

<210> 1216
 <211> 403
 <212> PRT
 <213> Homo sapiens

<400> 1216
 Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys Ala Ala Ala Ala
 1 5 10 15
 Ala Ala Ala Ala Pro Pro Gly Leu Arg Leu Arg Leu Leu Leu Leu
 20 25 30
 Phe Ser Ala Ala Ala Leu Ile Pro Thr Gly Asp Gly Gln Asn Leu Phe
 35 40 45
 Thr Lys Asp Val Thr Val Ile Glu Gly Glu Val Ala Thr Ile Ser Cys
 50 55 60
 Gln Val Asn Lys Ser Asp Ser Val Ile Gln Leu Leu Asn Pro Asn
 65 70 75 80
 Arg Gln Thr Ile Tyr Phe Arg Asp Phe Arg Pro Leu Lys Asp Ser Arg
 85 90 95
 Phe Gln Leu Leu Asn Phe Ser Ser Ser Glu Leu Lys Val Ser Leu Thr
 100 105 110
 Asn Val Ser Ile Ser Asp Glu Gly Arg Tyr Phe Cys Gln Leu Tyr Thr
 115 120 125
 Asp Pro Pro Gln Glu Ser Tyr Thr Thr Ile Thr Val Leu Val Pro Pro
 130 135 140
 Arg Asn Leu Met Ile Asp Ile Gln Lys Asp Thr Ala Val Glu Gly Glu
 145 150 155 160
 Glu Ile Glu Val Asn Cys Thr Ala Met Ala Ser Lys Pro Ala Thr Thr
 165 170 175
 Ile Arg Trp Phe Lys Gly Asn Thr Glu Leu Lys Gly Lys Ser Glu Val
 180 185 190
 Glu Glu Trp Ser Asp Met Tyr Thr Val Thr Ser Gln Leu Met Leu Lys
 195 200 205
 Val His Lys Glu Asp Asp Gly Val Pro Val Ile Cys Gln Val Glu His
 210 215 220
 Pro Ala Val Thr Gly Asn Leu Gln Thr Gln Arg Tyr Leu Glu Val Gln
 225 230 235 240
 Tyr Lys Pro Gln Val His Ile Gln Met Thr Tyr Pro Leu Gln Gly Leu
 245 250 255
 Thr Arg Glu Gly Asp Ala Leu Glu Leu Thr Cys Glu Ala Ile Gly Lys
 260 265 270

Pro Gln Pro Val Met Val Thr Trp Val Arg Val Asp Asp Glu Met Pro
 275 280 285
 Gln His Ala Val Leu Ser Gly Pro Asn Leu Phe Ile Asn Asn Leu Asn
 290 295 300
 Lys Thr Asp Asn Gly Thr Tyr Arg Cys Glu Ala Ser Asn Ile Val Gly
 305 310 315 320
 Lys Ala His Ser Asp Tyr Met Leu Tyr Val Tyr Asp Pro Pro Thr Thr
 325 330 335
 Ile Pro Pro Pro Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr
 340 345 350
 Thr Ile Leu Thr Ile Ile Thr Asp Ser Arg Ala Gly Glu Glu Gly Ser
 355 360 365
 Ile Arg Ala Val Asp His Ala Val Ile Gly Gly Val Val Ala Val Val
 370 375 380
 Val Phe Ala Met Leu Cys Leu Leu Ile Ile Leu Gly Arg Tyr Phe Ala
 385 390 395 400
 Gln Thr *
 402

<210> 1217
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1217
 Met Arg Ala Trp Ala Trp Pro Phe Cys Thr Ser Val Thr Ser Leu Ser
 1 5 10 15
 Ala Met Ala Ser Pro Trp Arg Arg Trp Pro Arg Arg Pro Ala Ser Arg
 20 25 30
 Thr Ala Ser Arg Ala Pro Ser Ala Gly Ile Ser Gly Ser Thr Ala Pro
 35 40 45 48
 *

<210> 1218
 <211> 304
 <212> PRT
 <213> Homo sapiens

<400> 1218
 Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr
 1 5 10 15
 Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
 20 25 30
 Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu Ala Ile Leu
 35 40 45
 Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg Leu Glu Trp Lys
 50 55 60
 Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
 65 70 75 80
 Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
 85 90 95
 Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser

			100					105				110					
Ala	Pro	Ser	Glu	Gln	Gly	Gln	Asn	Leu	Glu	Glu	Asp	Thr	Val	Thr	Leu		
			115					120				125					
Glu	Val	Leu	Gly	Asp	Val	His	Val	Leu	Ala	Pro	Ala	Val	Pro	Ser	Cys		
			130					135				140					
Glu	Val	Pro	Ser	Ser	Ala	Leu	Ser	Gly	Thr	Val	Val	Glu	Leu	Arg	Cys		
145						150					155				160		
Gln	Asp	Lys	Glu	Gly	Asn	Pro	Ala	Pro	Glu	Tyr	Thr	Trp	Phe	Lys	Asp		
				165					170					175			
Gly	Ile	Arg	Leu	Leu	Glu	Asn	Pro	Arg	Leu	Gly	Ser	Gln	Ser	Thr	Asn		
			180					185				190					
Ser	Ser	Tyr	Thr	Met	Asn	Thr	Lys	Thr	Gly	Thr	Leu	Gln	Phe	Asn	Thr		
		195					200					205					
Val	Ser	Lys	Leu	Asp	Thr	Gly	Glu	Tyr	Ser	Cys	Glu	Ala	Arg	Asn	Ser		
		210				215					220						
Val	Gly	Tyr	Arg	Arg	Cys	Pro	Gly	Lys	Arg	Met	Gln	Val	Asp	Asp	Leu		
225					230				235						240		
Asn	Ile	Ser	Gly	Ile	Ile	Ala	Ala	Val	Val	Val	Val	Ala	Leu	Val	Ile		
				245				250						255			
Ser	Val	Cys	Gly	Leu	Gly	Val	Cys	Tyr	Ala	Gln	Arg	Lys	Gly	Tyr	Phe		
			260				265					270					
Ser	Lys	Glu	Thr	Ser	Phe	Gln	Lys	Ser	Asn	Ser	Ser	Ser	Lys	Ala	Thr		
		275					280					285					
Thr	Met	Ser	Glu	Asn	Asp	Phe	Lys	His	Thr	Lys	Ser	Phe	Ile	Ile	*		
	290					295					300			303			

<210> 1219

<211> 1126

<212> PRT

<213> Homo sapiens

<400> 1219

Met	Trp	Phe	Leu	Phe	Leu	Cys	Pro	Asn	Leu	Trp	Ala	Met	Pro	Val	Gln		
1				5					10					15			
Ile	Ile	Met	Gly	Val	Ile	Leu	Leu	Tyr	Asn	Leu	Leu	Gly	Ser	Ser	Ala		
			20					25				30					
Leu	Val	Gly	Ala	Ala	Val	Ile	Val	Leu	Leu	Ala	Pro	Ile	Gln	Tyr	Phe		
		35				40					45						
Ile	Ala	Thr	Lys	Leu	Ala	Glu	Ala	Gln	Lys	Ser	Thr	Leu	Asp	Tyr	Ser		
		50				55					60						
Thr	Glu	Arg	Leu	Lys	Lys	Thr	Asn	Glu	Ile	Leu	Lys	Gly	Ile	Lys	Leu		
65					70				75					80			
Leu	Lys	Leu	Tyr	Ala	Trp	Glu	His	Ile	Phe	Cys	Lys	Ser	Val	Glu	Glu		
				85				90						95			
Thr	Arg	Met	Lys	Glu	Leu	Ser	Ser	Leu	Lys	Thr	Phe	Ala	Leu	Tyr	Thr		
		100						105				110					
Ser	Leu	Ser	Ile	Phe	Met	Asn	Ala	Ala	Ile	Pro	Ile	Ala	Ala	Val	Leu		
		115				120						125					
Ala	Thr	Phe	Val	Thr	His	Ala	Tyr	Ala	Ser	Gly	Asn	Asn	Leu	Lys	Pro		
		130				135					140						
Ala	Glu	Ala	Phe	Ala	Ser	Leu	Ser	Leu	Phe	His	Ile	Leu	Val	Thr	Pro		
145					150					155					160		
Leu	Phe	Leu	Leu	Ser	Thr	Val	Val	Arg	Phe	Ala	Val	Lys	Ala	Ile	Ile		
			165					170						175			
Ser	Val	Gln	Lys	Leu	Asn	Glu	Phe	Leu	Leu	Ser	Asp	Glu	Ile	Gly	Asp		
			180					185						190			

Asp	Ser	Trp	Arg	Thr	Gly	Glu	Ser	Ser	Leu	Pro	Phe	Glu	Ser	Cys	Lys
	195						200					205			
Lys	His	Thr	Gly	Val	Gln	Pro	Lys	Thr	Ile	Asn	Arg	Lys	Gln	Pro	Gly
	210					215					220				
Arg	Tyr	His	Leu	Asp	Ser	Tyr	Glu	Gln	Ser	Thr	Arg	Arg	Leu	Arg	Pro
225					230					235					240
Ala	Glu	Thr	Glu	Asp	Ile	Ala	Ile	Lys	Val	Thr	Asn	Gly	Tyr	Phe	Ser
				245					250					255	
Trp	Gly	Ser	Gly	Leu	Ala	Thr	Leu	Ser	Asn	Ile	Asp	Ile	Arg	Ile	Pro
			260					265					270		
Thr	Gly	Gln	Leu	Thr	Met	Ile	Val	Gly	Gln	Val	Gly	Cys	Gly	Lys	Ser
		275					280					285			
Ser	Leu	Leu	Leu	Ala	Ile	Leu	Gly	Glu	Met	Gln	Thr	Leu	Glu	Gly	Lys
	290					295					300				
Val	His	Trp	Ser	Asn	Val	Asn	Glu	Ser	Glu	Pro	Ser	Phe	Glu	Ala	Thr
305					310					315					320
Arg	Ser	Arg	Asn	Arg	Tyr	Ser	Val	Ala	Tyr	Ala	Ala	Gln	Lys	Pro	Trp
			325						330					335	
Leu	Leu	Asn	Ala	Thr	Val	Glu	Glu	Asn	Ile	Thr	Phe	Gly	Ser	Pro	Phe
			340					345					350		
Asn	Lys	Gln	Arg	Tyr	Lys	Ala	Val	Thr	Asp	Ala	Cys	Ser	Leu	Gln	Pro
	355						360					365			
Asp	Ile	Asp	Leu	Leu	Pro	Phe	Gly	Asp	Gln	Thr	Glu	Ile	Gly	Glu	Arg
	370					375					380				
Gly	Ile	Asn	Leu	Ser	Gly	Gly	Gln	Arg	Gln	Arg	Ile	Cys	Val	Ala	Arg
385					390					395					400
Ala	Leu	Tyr	Gln	Asn	Thr	Asn	Ile	Val	Phe	Leu	Asp	Asp	Pro	Phe	Ser
			405					410						415	
Ala	Leu	Asp	Ile	His	Leu	Ser	Asp	His	Leu	Met	Gln	Glu	Gly	Ile	Leu
		420						425					430		
Lys	Phe	Leu	Gln	Asp	Asp	Lys	Arg	Thr	Leu	Val	Leu	Val	Thr	His	Lys
	435						440					445			
Leu	Gln	Tyr	Leu	Thr	His	Ala	Asp	Trp	Ile	Ile	Ala	Met	Lys	Asp	Gly
	450					455					460				
Ser	Val	Leu	Arg	Glu	Gly	Thr	Leu	Lys	Asp	Ile	Gln	Thr	Lys	Asp	Val
465					470					475					480
Glu	Leu	Tyr	Glu	His	Trp	Lys	Thr	Leu	Met	Asn	Arg	Gln	Asp	Gln	Glu
			485						490					495	
Leu	Glu	Lys	Asp	Met	Glu	Ala	Asp	Gln	Thr	Thr	Leu	Glu	Arg	Lys	Thr
		500						505					510		
Leu	Arg	Arg	Ala	Met	Tyr	Ser	Arg	Glu	Ala	Lys	Ala	Gln	Met	Glu	Asp
	515						520					525			
Glu	Asp	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Glu	Asp	Asp	Asn	Met	Ser
	530					535					540				
Thr	Val	Met	Arg	Leu	Arg	Thr	Lys	Met	Pro	Trp	Lys	Thr	Cys	Trp	Arg
545					550					555					560
Tyr	Leu	Thr	Ser	Gly	Gly	Phe	Phe	Leu	Leu	Ile	Leu	Met	Ile	Phe	Ser
			565						570					575	
Lys	Leu	Leu	Lys	His	Ser	Val	Ile	Val	Ala	Ile	Asp	Tyr	Trp	Leu	Ala
		580						585					590		
Thr	Trp	Thr	Ser	Glu	Tyr	Ser	Ile	Asn	Asn	Thr	Gly	Lys	Ala	Asp	Gln
	595						600					605			
Thr	Tyr	Tyr	Val	Ala	Gly	Phe	Ser	Ile	Leu	Cys	Gly	Ala	Gly	Ile	Phe
	610				615						620				
Leu	Cys	Leu	Val	Thr	Ser	Leu	Thr	Val	Glu	Trp	Met	Gly	Leu	Thr	Ala
625					630					635					640
Ala	Lys	Asn	Leu	His	His	Asn	Leu	Leu	Asn	Lys	Ile	Ile	Leu	Gly	Pro
			645						650					655	
Ile	Arg	Phe	Phe	Asp	Thr	Thr	Pro	Leu	Gly	Leu	Ile	Leu	Asn	Arg	Phe

695

<210> 1220
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1220
 Met Ser Ser Val Ser Leu Ile Glu Phe Pro Leu Tyr Met Ile Cys Pro
 1 5 10 15
 Phe Ala Leu Ala Ala Phe Lys Thr Phe Ser Leu Ala Leu Ile Leu Asp
 20 25 30
 Ile Leu Leu Thr Ile Phe Leu Asp Asp Ile His Phe Val *
 35 40 45

<210> 1221
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1221
 Met Leu Ile Leu Leu Leu Glu Phe Gly Ile Thr Ile Ile Lys Val
 1 5 10 15
 Thr Cys Arg Leu Arg Ile Val Leu Cys Tyr Arg Lys Tyr Lys Thr Lys
 20 25 30
 Arg Asn Lys Lys Leu Lys Leu Gly Asn Asn Ser Lys Phe Gln Arg Met
 35 40 45
 Cys Leu Arg Thr Ser Phe His *
 50 55

<210> 1222
 <211> 253
 <212> PRT
 <213> Homo sapiens

<400> 1222
 Met Gly Cys Ala Ile Ile Ala Gly Phe Leu His Tyr Leu Phe Leu Ala
 1 5 10 15
 Cys Phe Phe Trp Met Leu Val Glu Ala Val Ile Leu Phe Leu Met Val
 20 25 30
 Arg Asn Leu Lys Val Val Asn Tyr Phe Ser Ser Arg Asn Ile Lys Met
 35 40 45
 Leu His Ile Cys Ala Phe Gly Tyr Gly Leu Pro Met Leu Val Val Val
 50 55 60
 Ile Ser Ala Ser Val Gln Pro Gln Gly Tyr Gly Met His Asn Arg Cys
 65 70 75 80
 Trp Leu Asn Thr Glu Thr Gly Phe Ile Trp Ser Phe Leu Gly Pro Val
 85 90 95
 Cys Thr Val Ile Val Ile Asn Ser Leu Leu Leu Thr Trp Thr Leu Trp
 100 105 110
 Ile Leu Arg Gln Arg Leu Ser Ser Val Asn Ala Glu Val Ser Thr Leu

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      115      120      125
Lys Asp Thr Arg Leu Leu Thr Phe Lys Ala Phe Ala Gln Leu Phe Ile
      130      135      140
Leu Gly Cys Ser Trp Val Leu Gly Ile Phe Gln Ile Gly Pro Val Ala
145      150      155      160
Gly Val Met Ala Tyr Leu Phe His His His Gln Gln Pro Ala Gly Gly
      165      170      175
Leu His Leu Pro His Pro Leu Ser Ala Gln Arg Pro Gly Thr Arg Arg
      180      185      190
Ile Gln Glu Val Asp His Trp Glu Asp Glu Ala Gln Leu Pro Val Pro
      195      200      205
Asp Leu Lys Asp Leu Ala Val Leu His Ala Ile Arg Phe Gln Asp Gly
210      215      220
Leu Lys Ser Phe Leu Ala Phe Lys Tyr Ala Met Glu Pro Thr Val Gly
225      230      235      240
Gly Thr Ser Ser Phe Pro Cys Arg Glu Pro Tyr Pro *
      245      250      252

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<210> 1223
<211> 858
<212> PRT
<213> Homo sapiens

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      <400> 1223
Met Lys Met Leu Thr Arg Leu Gln Val Leu Thr Leu Ala Leu Phe Ser
 1      5      10      15
Lys Gly Phe Leu Leu Ser Leu Gly Asp His Asn Phe Leu Arg Arg Glu
      20      25      30
Ile Lys Ile Glu Gly Asp Leu Val Leu Gly Gly Leu Phe Pro Ile Asn
      35      40      45
Glu Lys Gly Thr Gly Thr Glu Glu Cys Gly Arg Ile Asn Glu Asp Arg
      50      55      60
Gly Ile Gln Arg Leu Glu Ala Met Leu Phe Ala Ile Asp Glu Ile Asn
      65      70      75      80
Lys Asp Asp Tyr Leu Leu Pro Gly Val Lys Leu Gly Val His Ile Leu
      85      90      95
Asp Thr Cys Ser Arg Asp Thr Tyr Ala Leu Glu Gln Ser Leu Glu Phe
      100      105      110
Val Arg Ala Ser Leu Thr Lys Val Asp Glu Ala Glu Tyr Met Cys Pro
      115      120      125
Asp Gly Ser Tyr Ala Ile Gln Glu Asn Ile Pro Leu Leu Ile Ala Gly
      130      135      140
Val Ile Gly Gly Ser Tyr Ser Arg Val Ser Ile Gln Gly Ala Asn Leu
145      150      155      160
Leu Arg Leu Phe Gln Ile Pro Gln Ile Arg Tyr Ala Ser Thr Ser Ala
      165      170      175
Lys Leu Ser Asp Lys Ser Arg Tyr Asp Tyr Phe Ala Arg Thr Val Pro
      180      185      190
Pro Asp Phe Tyr Gln Ala Lys Ala Met Ala Glu Ile Leu Arg Phe Phe
      195      200      205
Asn Trp Thr Tyr Val Ser Thr Val Ala Ser Glu Gly Asp Tyr Gly Glu
210      215      220
Thr Gly Ile Glu Ala Phe Glu Gln Glu Ala Arg Leu Arg Asn Ile Cys
225      230      235      240
Ile Ala Thr Ala Glu Lys Val Gly Arg Ser Asn Ile Arg Lys Ser Tyr
      245      250      255

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Asp Ser Val Ile Arg Glu Leu Leu Gln Lys Pro Asn Ala Arg Val Val
 260 265 270
 Val Leu Phe Met Arg Ser Asp Asp Ser Arg Glu Leu Ile Ala Ala Ala
 275 280 285
 Ser Arg Ala Asn Ala Ser Phe Thr Trp Val Ala Ser Asp Gly Trp Gly
 290 295 300
 Ala Gln Glu Ser Ile Ile Lys Gly Ser Glu His Val Ala Tyr Gly Ala
 305 310 315 320
 Ile Thr Leu Glu Leu Ala Ser Gln Pro Val Arg Gln Phe Asp Arg Tyr
 325 330 335
 Phe Gln Ser Leu Asn Pro Tyr Asn Asn His Arg Asn Pro Trp Phe Arg
 340 345 350
 Asp Phe Trp Glu Gln Lys Phe Gln Cys Ser Leu Gln Asn Lys Arg Asn
 355 360 365
 His Arg Arg Val Cys Asp Lys His Leu Ala Ile Asp Ser Ser Asn Tyr
 370 375 380
 Glu Gln Glu Ser Lys Ile Met Phe Val Val Asn Ala Val Tyr Ala Met
 385 390 395 400
 Ala His Ala Leu His Lys Met Gln Arg Thr Leu Cys Pro Asn Thr Thr
 405 410 415
 Lys Leu Cys Asp Ala Met Lys Ile Leu Asp Gly Lys Lys Leu Tyr Lys
 420 425 430
 Asp Tyr Leu Leu Lys Ile Asn Phe Thr Ala Pro Phe Asn Pro Asn Lys
 435 440 445
 Asp Ala Asp Ser Ile Val Lys Phe Asp Thr Phe Gly Asp Gly Met Gly
 450 455 460
 Arg Tyr Asn Val Phe Asn Phe Gln Asn Val Gly Gly Lys Tyr Ser Tyr
 465 470 475 480
 Leu Lys Val Gly His Trp Ala Glu Thr Leu Ser Leu Asp Val Asn Ser
 485 490 495
 Ile His Trp Ser Arg Asn Ser Val Pro Thr Ser Gln Cys Ser Asp Pro
 500 505 510
 Cys Ala Pro Asn Glu Met Lys Asn Met Gln Pro Gly Asp Val Cys Cys
 515 520 525
 Trp Ile Cys Ile Pro Cys Glu Pro Tyr Glu Tyr Leu Ala Asp Glu Phe
 530 535 540
 Thr Cys Met Asp Cys Gly Ser Gly Gln Trp Pro Thr Ala Asp Leu Thr
 545 550 555 560
 Gly Cys Tyr Asp Leu Pro Glu Asp Tyr Ile Arg Trp Glu Asp Ala Trp
 565 570 575
 Ala Ile Gly Pro Val Thr Ile Ala Cys Leu Gly Phe Met Cys Thr Cys
 580 585 590
 Met Val Val Thr Val Phe Ile Lys His Asn Asn Thr Pro Leu Val Lys
 595 600 605
 Ala Ser Gly Arg Glu Leu Cys Tyr Ile Leu Leu Phe Gly Val Gly Leu
 610 615 620
 Ser Tyr Cys Met Thr Phe Phe Ile Ala Lys Pro Ser Pro Val Ile
 625 630 635 640
 Cys Ala Leu Arg Arg Leu Gly Leu Gly Ser Ser Phe Ala Ile Cys Tyr
 645 650 655
 Ser Ala Leu Leu Thr Lys Thr Asn Cys Ile Ala Arg Ile Phe Asp Gly
 660 665 670
 Val Lys Asn Gly Ala Gln Arg Pro Lys Phe Ile Ser Pro Ser Ser Gln
 675 680 685
 Val Phe Ile Cys Leu Gly Leu Ile Leu Val Gln Ile Val Met Val Ser
 690 695 700
 Val Trp Leu Ile Leu Glu Ala Pro Gly Thr Arg Arg Tyr Thr Leu Ala
 705 710 715 720
 Glu Lys Arg Glu Thr Val Ile Leu Lys Cys Asn Val Lys Asp Ser Ser


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              725              730              735
Met Leu Ile Ser Leu Thr Tyr Asp Val Ile Leu Val Ile Leu Cys Thr
              740              745              750
Val Tyr Ala Phe Lys Thr Arg Lys Cys Pro Glu Asn Phe Asn Glu Ala
              755              760              765
Lys Phe Ile Gly Phe Thr Met Tyr Thr Thr Cys Ile Ile Trp Leu Ala
              770              775              780
Phe Leu Pro Ile Phe Tyr Val Thr Ser Ser Asp Tyr Arg Val Gln Thr
785              790              795              800
Thr Thr Met Cys Ile Ser Val Ser Leu Ser Gly Phe Val Val Leu Gly
              805              810              815
Cys Leu Phe Ala Pro Lys Val His Ile Ile Leu Phe Gln Pro Gln Lys
              820              825              830
Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly
              835              840              845
Thr Gly Thr His Ile Leu Ser Val Leu *
              850              855              857

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<210> 1224
 <211> 69
 <212> PRT
 <213> Homo sapiens

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    <400> 1224
Met Ser His Met Val Pro Leu Ala Leu Leu Leu Pro Leu Phe Pro Thr
  1              5              10              15
Ser Arg Arg Ala Ala Leu Pro Phe Leu Pro Leu Phe Phe Gly Leu Met
              20              25              30
Phe Pro Ala Thr Thr Asp Leu Pro Pro Pro His Pro Ser Ala Asp Leu
              35              40              45
Ala Val His Cys Arg His Gly Gly Leu Ile Ser Asp Arg Lys Leu Arg
              50              55              60
Leu Ser Glu Arg *
  65              68

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<210> 1225
 <211> 55
 <212> PRT
 <213> Homo sapiens

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    <400> 1225
Met Cys Tyr His Thr Trp Leu Ile Phe Ile Phe Leu Val Glu Met Gly
  1              5              10              15
Phe Tyr His Val Gly Gln Ala Gly Phe Lys Leu Leu Ala Ser Ser Gly
              20              25              30
Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His
              35              40              45
His Ala Arg Pro Thr Phe *
              50              54

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<210> 1226

<211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1226
 Met Ile Leu Ser Leu Leu Lys Phe Phe Pro Leu Leu Ser Ser Asp Thr
 1 5 10 15
 Pro Asn Ser Ser Val Pro Leu Leu Thr Thr Pro Arg Asp Pro Pro Tyr
 20 25 30
 His Leu Ser Pro Cys Ser Ser Ser Tyr Phe Val Lys Glu Gly Phe Ser
 35 40 45
 Val Val *
 50

<210> 1227
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1227
 Met Ile Leu Phe Cys Val Met Val Phe Ile Leu Phe Ile Thr Phe His
 1 5 10 15
 Leu Gln Leu Pro Thr Val Gly Asp Val Thr Tyr Cys Phe Cys Ser Asn
 20 25 30
 Lys Leu Arg Lys Thr Arg Glu Leu Lys Lys Ile Ser Ser Asn *
 35 40 45 46

<210> 1228
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1228
 Met Phe Ser Thr Ala Phe Trp Pro Pro Phe Leu Asn Pro Ser Leu Met
 1 5 10 15
 Phe Phe Thr Leu Leu Cys Ser Asp Phe Met Pro Cys Glu Ala Val Cys
 20 25 30
 Ser Ser Ile Ile Tyr Ser Phe Ile Pro Val Thr Lys Thr Gln Gly Ala
 35 40 45
 Ala Pro His Thr Arg Gly Pro Gln Pro His Thr *
 50 55 59

<210> 1229
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1229
 Met Cys Glu Ser Thr Glu Leu Asn Met Thr Phe His Leu Phe Ile Val

1	5	10	15
Ala Leu Ala Gly	Ala Gly Ala Ala	Val Ile Ala Met	Val His Tyr Leu
	20	25	30
Met Val Leu Ser	Ala Asn Trp Ala	Tyr Val Lys Asp	Ala Cys Arg Met
	35	40	45
Ala Glu Val *			
50	51		

<210> 1230
 <211> 362
 <212> PRT
 <213> Homo sapiens

<400> 1230

Met Pro Val Ile	Trp Ser Ala Leu	Ser Ala Val Leu	Leu Leu Leu	Ala Ser
1	5	10	15	
Ser Tyr Phe Val	Gly Ala Leu Ile	Val His Ala Asp	Cys Phe Leu	Met
	20	25	30	
Arg Asn His Thr	Ile Thr Glu Gln	Pro Met Cys Phe	Gln Arg Thr	Thr
	35	40	45	
Pro Leu Ile Leu	Gln Glu Val Ala	Ser Phe Leu Lys	Arg Asn Lys	His
	50	55	60	
Gly Pro Phe Leu	Leu Phe Val Ser	Phe Leu His Val	His Ile Pro	Leu
	65	70	75	80
Ile Thr Met Glu	Asn Phe Leu Gly	Lys Ser Leu His	Gly Leu Tyr	Gly
	85	90	95	
Asp Asn Val Lys	Glu Met Asp Trp	Met Val Gly Arg	Ile Leu Asp	Thr
	100	105	110	
Leu Asp Val Glu	Gly Leu Ser Asn	Ser Thr Leu Ile	Tyr Phe Thr	Ser
	115	120	125	
Asp His Gly Gly	Ser Leu Glu Asn	Gln Leu Gly Asn	Thr Gln Tyr	Gly
	130	135	140	
Gly Trp Asn Gly	Ile Tyr Lys Gly	Gly Lys Gly Met	Gly Gly Trp	Glu
	145	150	155	160
Gly Gly Ile Arg	Val Pro Gly Ile	Phe Arg Trp Pro	Gly Val Leu	Pro
	165	170	175	
Ala Gly Arg Val	Ile Gly Glu Pro	Thr Ser Leu Met	Asp Val Phe	Pro
	180	185	190	
Thr Val Val Arg	Leu Ala Gly Ser	Glu Val Pro Gln	Asp Arg Val	Ile
	195	200	205	
Asp Gly Gln Asp	Leu Leu Pro Leu	Leu Leu Gly Thr	Ala Gln His	Ser
	210	215	220	
Asp His Glu Phe	Leu Met His Tyr	Cys Glu Arg Phe	Leu His Ala	Ala
	225	230	235	240
Arg Trp His Gln	Arg Asp Arg Gly	Thr Met Trp Lys	Val His Phe	Val
	245	250	255	
Thr Pro Val Phe	Gln Pro Arg Gly	Ser Arg Cys Leu	Leu Trp Lys	Glu
	260	265	270	
Lys Val Cys Pro	Cys Phe Gly Glu	Lys Ser Ser Pro	Pro Arg Ser	His
	275	280	285	
Pro Cys Phe Phe	Asp Leu Ser Arg	Ala Pro Ser Glu	Thr His Ile	Leu
	290	295	300	
Thr Pro Ala Ser	Glu Pro Val Phe	Tyr Gln Val Met	Glu Arg Ser	Pro
	305	310	315	320
Ala Gly Gly Val	Gly Thr Pro Ala	Asp Thr Gln Pro	Ser Ser Ser	Ala
	325	330	335	

Ala Gly Gln Ala Gly Gln Tyr Leu Glu Thr Gly Gly Ala Ala Leu Leu
 340 345 350
 Trp Ala Val Pro Pro Leu Val Gly Pro *
 355 360 361

<210> 1231
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1231
 Met Leu Arg Leu Gly Val Ala Phe His Met Glu Leu Leu Cys Arg Gly
 1 5 10 15
 Arg Leu Leu Leu Leu Ile Pro Thr Ala Glu Thr Arg Cys Asp His Arg
 20 25 30
 Arg Leu Gln Asn Leu Lys Leu Gly Leu Ser Asn Thr Leu Asp Lys His
 35 40 45
 Gln Glu Pro His *
 50 52

<210> 1232
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1232
 Met Leu Asn Phe Ile Ser Pro Phe Gly Ser Thr Ile Leu Leu Leu Ile
 1 5 10 15
 Pro Ser Ala Leu Pro Pro Ser Pro Pro Ser Arg Cys Ser Leu Leu Ser
 20 25 30
 Pro Pro Pro Thr Thr Pro Leu Pro Leu Pro Leu Pro Ser Pro Phe Ser
 35 40 45
 Ser Pro Leu Leu Ser Phe Phe *
 50 55

<210> 1233
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1233
 Met Gln Leu His Val Ser Leu Pro Trp Leu Leu Arg Phe Pro Gly Leu
 1 5 10 15
 Asp Cys Thr Leu His Pro Asp Gln Pro Ser Ile Gln Leu Leu Gln Gly
 20 25 30
 Thr Ile Asp Leu Leu Asp Ser Val Ile Leu Ser Cys Ser Leu Cys Leu
 35 40 45
 Phe Gly Val Leu Gln Met His Ile
 50 55 56

<210> 1234
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1234
 Met Leu Ser Gln Leu Pro Arg Cys Gln Ser Ser Val Pro Ala Leu Ala
 1 5 10 15
 His Pro Thr Arg Leu His Tyr Leu Leu Arg Leu Leu Thr Phe Leu Leu
 20 25 30
 Gly Pro Gly Ala Gly Gly Ala Glu Ala Gln Gly Met Leu Gly Arg Ala
 35 40 45
 Leu Leu Leu Ser Ser Leu Pro Asp Asn Cys Ser Phe Trp Asp Ala Phe
 50 55 60
 Arg Pro Glu Gly Arg Arg Ser Val Leu Arg Thr Ile Gly Glu Tyr Leu
 65 70 75 80
 Glu Gln Asp Glu Glu Gln Pro Thr Pro Ser Gly Phe Glu Pro Thr Val
 85 90 95
 Asn Pro Ser Ser Gly Ile Ser Lys Met Glu Leu Leu Ala Cys Phe Ser
 100 105 110
 Val Ser Ala Leu Pro Glu Gly Lys Leu Leu Glu Gln *
 115 120 124

<210> 1235
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1235
 Met Phe Cys Phe Leu His Val Phe Leu Val Ser Leu Pro Phe Leu Thr
 1 5 10 15
 Ser Tyr Ser Cys Leu Gln Ile Ile Ser Tyr Ser Ser Phe Lys Ala Trp
 20 25 30
 Phe Lys Tyr Pro Phe Leu Cys Lys Ile Phe Pro Thr Leu Pro Asn Asn
 35 40 45
 Asp Ser Leu Gln Gln Thr Pro Leu Val His Gly Val Cys Leu Gln Gln
 50 55 60
 Gly Val His His Arg Leu Ile *
 65 70 71

<210> 1236
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1236
 Met Ala Pro Gly Gly Ala Lys Gly Gln Gly Ala Ser Ala Leu Ala Leu
 1 5 10 15
 Leu Phe Ile Leu Ala Ser Pro Ala Thr Gly Gly Gly Pro Arg Leu Trp
 20 25 30

Arg Ala Gly Gly Leu Gly Phe Thr His Cys Gln Ala Asn Ser Thr Thr
 35 40 45 48

<210> 1237
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 1237
 Met Ala Phe Leu Arg Lys Val Tyr Ser Ile Leu Ser Leu Gln Val Leu
 1 5 10 15
 Leu Thr Thr Val Thr Ser Thr Val Phe Leu Tyr Phe Glu Ser Val Arg
 20 25 30
 Thr Phe Val His Glu Ser Pro Ala Leu Ile Leu Leu Phe Ala Leu Gly
 35 40 45
 Ser Leu Gly Leu Ile Phe Ala Leu Ile Leu Asn Arg His Lys Tyr Pro
 50 55 60
 Leu Asn Leu Tyr Leu Leu Phe Gly Phe Thr Leu Leu Glu Ala Leu Thr
 65 70 75 80
 Val Ala Val Val Val Thr Phe Tyr Asp Val Tyr Ile Ile Leu Gln Ala
 85 90 95
 Phe Ile Leu Thr Thr Thr Val Phe Phe Gly Leu Thr Val Tyr Thr Leu
 100 105 110
 Gln Ser Lys Lys Asp Phe Ser Lys Phe Gly Ala Gly Leu Phe Ala Leu
 115 120 125
 Leu Trp Ile Leu Cys Leu Ser Gly Phe Leu Lys Phe Phe Phe Tyr Ser
 130 135 140
 Glu Ile Met Glu Leu Val Leu Ala Ala Ala Gly Ala Leu Leu Phe Cys
 145 150 155 160
 Gly Phe Ile Ile Tyr Asp Thr His Ser Leu Met His Lys Leu Ser Pro
 165 170 175
 Glu Glu Tyr Val Leu Ala Ala Ile Ser Leu Tyr Leu Asp Ile Ile Asn
 180 185 190
 Leu Phe Leu His Leu Leu Arg Phe Leu Glu Ala Val Asn Lys Lys *
 195 200 205 207

<210> 1238
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 1238
 Met Lys Val Val Pro Ser Leu Leu Leu Ser Val Leu Leu Ala Gln Val
 1 5 10 15
 Trp Leu Val Pro Gly Leu Ala Pro Ser Pro Gln Ser Pro Glu Thr Pro
 20 25 30
 Ala Pro Gln Asn Gln Thr Ser Arg Val Val Gln Ala Pro Lys Glu Glu
 35 40 45
 Glu Glu Asp Glu Gln Glu Ala Ser Glu Glu Lys Ala Ser Glu Glu Glu
 50 55 60
 Lys Ala Trp Leu Met Ala Ser Arg Gln Gln Leu Ala Lys Glu Thr Ser

65					70					75					80
Asn	Phe	Gly	Phe	Ser	Leu	Leu	Arg	Lys	Ile	Ser	Met	Arg	His	Asp	Gly
				85					90					95	
Asn	Met	Val	Phe	Ser	Pro	Phe	Gly	Met	Ser	Leu	Ala	Met	Thr	Gly	Leu
			100					105					110		
Met	Leu	Gly	Ala	Thr	Gly	Pro	Thr	Glu	Thr	Gln	Ile	Lys	Arg	Gly	Leu
		115					120					125			
His	Leu	Gln	Ala	Leu	Lys	Pro	Thr	Lys	Pro	Gly	Leu	Leu	Pro	Ser	Leu
	130					135					140				
Phe	Lys	Gly	Leu	Arg	Glu	Thr	Leu	Ser	Arg	Asn	Leu	Glu	Leu	Gly	Leu
145					150					155					160
Thr	Ala	Gly	Glu	Phe	Cys	Leu	His	Pro	Gln	Gly	Phe	*			
				165					170		172				

<210> 1239

<211> 357

<212> PRT

<213> Homo sapiens

<400> 1239

Met	Ala	Phe	Leu	Gly	Leu	Phe	Ser	Leu	Leu	Val	Leu	Gln	Ser	Met	Ala
1				5					10					15	
Thr	Gly	Ala	Thr	Phe	Pro	Glu	Glu	Ala	Ile	Ala	Asp	Leu	Ser	Val	Asn
			20					25				30			
Met	Tyr	Asn	Arg	Leu	Arg	Ala	Thr	Gly	Glu	Asp	Glu	Asn	Ile	Leu	Phe
		35					40					45			
Ser	Pro	Leu	Ser	Ile	Ala	Leu	Ala	Met	Gly	Met	Met	Glu	Leu	Gly	Ala
	50				55					60					
Gln	Gly	Ser	Thr	Gln	Lys	Glu	Ile	Arg	His	Ser	Met	Gly	Tyr	Asp	Ser
65					70					75				80	
Leu	Lys	Asn	Gly	Glu	Phe	Ser	Phe	Leu	Lys	Glu	Phe	Ser	Asn	Met	
			85					90					95		
Val	Thr	Ala	Lys	Glu	Ser	Gln	Tyr	Val	Met	Lys	Ile	Ala	Asn	Ser	Leu
			100					105					110		
Phe	Val	Gln	Asn	Gly	Phe	His	Val	Asn	Glu	Glu	Phe	Leu	Gln	Met	Met
	115						120					125			
Lys	Lys	Tyr	Phe	Asn	Ala	Ala	Val	Asn	His	Val	Asp	Phe	Ser	Gln	Asn
	130				135						140				
Val	Ala	Val	Ala	Asn	Tyr	Ile	Asn	Lys	Trp	Val	Glu	Asn	Asn	Thr	Asn
145				150						155					160
Asn	Leu	Val	Lys	Asp	Leu	Val	Ser	Pro	Arg	Asp	Phe	Asp	Ala	Ala	Thr
			165						170					175	
Tyr	Leu	Ala	Leu	Ile	Asn	Ala	Val	Tyr	Phe	Lys	Gly	Asn	Trp	Lys	Ser
		180						185					190		
Gln	Phe	Arg	Pro	Glu	Asn	Thr	Arg	Thr	Phe	Ser	Phe	Thr	Lys	Asp	Asp
	195					200						205			
Glu	Ser	Glu	Val	Gln	Ile	Pro	Met	Met	Tyr	Gln	Gln	Gly	Glu	Phe	Tyr
	210					215					220				
Tyr	Gly	Glu	Phe	Ser	Asp	Gly	Ser	Asn	Glu	Ala	Gly	Gly	Ile	Tyr	Gln
225				230						235					240
Val	Leu	Glu	Ile	Pro	Tyr	Glu	Gly	Asp	Glu	Ile	Ser	Met	Met	Leu	Val
			245						250					255	
Leu	Ser	Arg	Gln	Glu	Val	Pro	Leu	Ala	Thr	Leu	Glu	Pro	Leu	Val	Lys
			260					265					270		
Ala	Gln	Leu	Val	Glu	Glu	Trp	Ala	Asn	Ser	Val	Lys	Lys	Gln	Lys	Val
	275						280					285			

Glu Val Tyr Leu Pro Arg Phe Thr Val Glu Gln Glu Ile Asp Leu Lys
 290 295 300
 Asp Val Leu Lys Ala Leu Gly Ile Thr Glu Ile Phe Ile Lys Asp Ala
 305 310 315 320
 Asn Leu Thr Gly Leu Ser Asp Asn Lys Glu Ile Phe Leu Ser Lys Ala
 325 330 335
 Ile His Lys Ser Phe Leu Glu Val Asn Glu Glu Ala Gln Lys Leu Leu
 340 345 350
 Leu Ser Gln Glu *
 355 356

<210> 1240
 <211> 707
 <212> PRT
 <213> Homo sapiens

<400> 1240
 Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
 1 5 10 15
 Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
 20 25 30
 Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
 35 40 45
 Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
 50 55 60
 Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
 65 70 75 80
 Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
 85 90 95
 Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
 100 105 110
 Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
 115 120 125
 Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
 130 135 140
 Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
 145 150 155 160
 Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
 165 170 175
 Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
 180 185 190
 Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
 195 200 205
 Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe
 210 215 220
 Ala Leu Val Ile Leu Leu Asp Arg Thr Lys Val Pro Ala Lys Asp Tyr
 225 230 235 240
 Phe Val Ala Thr Thr Ile Val Val Val Phe Phe Thr Val Ile Val Gln
 245 250 255
 Gly Leu Thr Ile Lys Pro Leu Val Lys Trp Leu Lys Val Lys Arg Ser
 260 265 270
 Glu His His Lys Pro Thr Leu Asn Gln Glu Leu His Glu His Thr Phe
 275 280 285
 Asp His Ile Leu Ala Ala Val Glu Asp Val Val Gly His His Gly Tyr
 290 295 300
 His Tyr Trp Arg Asp Arg Trp Glu Gln Phe Asp Lys Lys Tyr Leu Ser

305					310					315				320	
Gln	Leu	Leu	Met	Arg	Arg	Ser	Ala	Tyr	Arg	Ile	Arg	Asp	Gln	Ile	Trp
				325						330				335	
Asp	Val	Tyr	Tyr	Arg	Leu	Asn	Ile	Arg	Asp	Ala	Ile	Ser	Phe	Val	Asp
				340						345				350	
Gln	Gly	Gly	His	Val	Leu	Ser	Ser	Thr	Gly	Leu	Thr	Leu	Pro	Ser	Met
			355					360					365		
Pro	Ser	Arg	Asn	Ser	Val	Ala	Glu	Thr	Ser	Val	Thr	Asn	Leu	Leu	Arg
						375						380			
Glu	Ser	Gly	Ser	Gly	Ala	Cys	Leu	Asp	Leu	Gln	Val	Ile	Asp	Thr	Val
385					390					395					400
Arg	Ser	Gly	Arg	Asp	Arg	Glu	Asp	Ala	Val	Met	His	His	Leu	Leu	Cys
				405						410					415
Gly	Gly	Leu	Tyr	Lys	Pro	Arg	Arg	Arg	Tyr	Lys	Ala	Ser	Cys	Ser	Arg
			420					425					430		
His	Phe	Ile	Ser	Glu	Asp	Ala	Gln	Glu	Arg	Gln	Asp	Lys	Glu	Val	Phe
			435					440					445		
Gln	Gln	Asn	Met	Lys	Arg	Arg	Leu	Glu	Ser	Phe	Lys	Ser	Thr	Lys	His
			450				455					460			
Asn	Ile	Cys	Phe	Thr	Lys	Ser	Lys	Pro	Arg	Pro	Arg	Lys	Thr	Gly	Arg
465					470					475					480
Arg	Lys	Lys	Asp	Gly	Val	Ala	Asn	Ala	Glu	Ala	Thr	Asn	Gly	Lys	His
				485						490					495
Arg	Gly	Leu	Gly	Phe	Gln	Asp	Thr	Ala	Ala	Val	Ile	Leu	Thr	Val	Glu
			500					505						510	
Ser	Glu	Glu	Glu	Glu	Glu	Ser	Asp	Ser	Ser	Glu	Thr	Glu	Lys	Glu	
			515				520					525			
Asp	Asp	Glu	Gly	Ile	Ile	Phe	Val	Ala	Arg	Ala	Thr	Ser	Glu	Val	Leu
			530				535					540			
Gln	Glu	Gly	Lys	Val	Ser	Gly	Ser	Leu	Glu	Val	Cys	Pro	Ser	Pro	Arg
545					550					555					560
Ile	Ile	Pro	Pro	Ser	Pro	Thr	Cys	Ala	Glu	Lys	Glu	Leu	Pro	Trp	Lys
				565						570					575
Ser	Gly	Gln	Gly	Asp	Leu	Ala	Val	Tyr	Val	Ser	Ser	Glu	Thr	Thr	Lys
			580					585					590		
Ile	Val	Pro	Val	Asp	Met	Gln	Thr	Gly	Trp	Asn	Gln	Ser	Ile	Ser	Ser
			595				600					605			
Leu	Glu	Ser	Leu	Ala	Ser	Pro	Pro	Cys	Asn	Gln	Ala	Pro	Ile	Leu	Thr
			610				615					620			
Cys	Leu	Pro	Pro	His	Pro	Arg	Gly	Thr	Glu	Glu	Pro	Gln	Val	Pro	Leu
625					630					635					640
His	Leu	Pro	Ser	Asp	Pro	Arg	Ser	Ser	Phe	Ala	Phe	Pro	Pro	Ser	Leu
				645						650					655
Ala	Lys	Ala	Gly	Arg	Ser	Arg	Ser	Glu	Ser	Ser	Ala	Asp	Leu	Pro	Gln
			660					665					670		
Gln	Gln	Glu	Leu	Gln	Pro	Leu	Met	Gly	His	Lys	Asp	His	Thr	His	Leu
			675				680					685			
Ser	Pro	Gly	Thr	Ala	Thr	Ser	His	Trp	Cys	Ile	Gln	Phe	Asn	Arg	Gly
			690				695					700			
Ser	Arg	Leu													
705			707												

<210> 1241
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 1241
 Met Ala Phe Arg Thr Phe Ser Trp Ile Phe Ser Gly Leu Leu Ser Pro
 1 5 10 15
 Thr Leu Ala Ser Pro Ser Val Ser Met Met Thr Met Glu Val Leu Leu
 20 25 30
 Ser Gly Ile Leu Cys Ser Ser Arg Ala Leu Phe Ser Ile Leu Met Pro
 35 40 45
 Leu Ser Ser Pro Ser Leu Met Leu Val Ile Pro Leu Ser Ser Met Leu
 50 55 60
 Phe Thr Asn Val Leu Ala Ser Trp Arg Phe Ser Gly Val Ala Trp Thr
 65 70 75 80
 Lys Cys Ser Phe His Val Asp Thr Ser Pro Leu Asn Arg Met Lys Phe
 85 90 95
 Arg *
 97

<210> 1242
 <211> 422
 <212> PRT
 <213> Homo sapiens

<400> 1242
 Met Val Leu Trp Glu Ser Pro Arg Gln Cys Ser Ser Trp Thr Leu Cys
 1 5 10 15
 Glu Gly Phe Cys Trp Leu Leu Leu Leu Pro Val Met Leu Leu Ile Val
 20 25 30
 Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr Ser Leu Ser Asp Cys
 35 40 45
 Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn
 50 55 60
 Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys
 65 70 75 80
 Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys Gln Phe Lys Cys Asn
 85 90 95
 Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn
 100 105 110
 Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu
 115 120 125
 Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly
 130 135 140
 Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser
 145 150 155 160
 Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys Asp Glu Asn Ala Glu
 165 170 175
 Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn
 180 185 190
 Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile
 195 200 205
 Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile Glu Val Leu Ser Leu
 210 215 220
 Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr Lys Ser Glu Asp Gly
 225 230 235 240
 His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu
 245 250 255
 Ser Ala Arg Glu His His Ile Pro Cys Pro Glu His Tyr Asn Gly Phe

```

                260                265                270
Cys Met His Gly Lys Cys Glu His Ser Ile Asn Met Gln Glu Pro Ser
                275                280                285
Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His Cys Glu Lys Lys Asp
                290                295                300
Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val Arg Phe Pro Val Cys
305                310                315                320
Leu Asn Arg Ser Cys Asp Trp Asn Asn Ser Asp Cys Cys His Leu Cys
                325                330                335
Gly Gly Pro Leu His His Lys Glu Met Pro Pro Glu Ala Asn Arg Ile
                340                345                350
Pro Pro Asp Arg Ser Lys Ile Pro Gly His Tyr Ser Ser Arg Gln Tyr
                355                360                365
Asn Lys Ser Arg Pro Thr Arg Leu Ile Leu Lys Gly Ala Cys Phe His
370                375                380
Ser Gly Trp Thr Thr Glu Ser Leu Asp Tyr Thr Ile Gln Tyr Tyr Arg
385                390                395                400
Gln Lys Asn Lys Thr Arg Asp Leu Thr His Val Cys Leu Ala Phe Val
                405                410                415
Gly Asn Leu His Gln *
                420 421

```

```

<210> 1243
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1243
Met Leu Phe Val Phe Ile Cys Ser Tyr Phe His Leu Ser Leu Phe Leu
 1                5                10                15
Leu Phe Pro Phe Leu Pro Val Ser Leu Pro Ser Phe Leu Pro Phe Phe
                20                25                30
Leu Pro Ser Phe Leu Glu Phe Thr Glu Val Phe Pro Arg *
                35                40                45

```

```

<210> 1244
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1244
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
 1                5                10                15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
                20                25                30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val *
                35                40                45

```

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<210> 1245
<211> 244
<212> PRT

```

<213> Homo sapiens

<400> 1245

```

Met Ala Gly Val Ile Ala Gly Leu Leu Met Phe Ile Ile Ile Leu Leu
 1          5          10          15
Gly Val Met Leu Thr Ile Lys Arg Arg Asn Ala Tyr Ser Tyr Ser
          20          25          30
Tyr Tyr Leu Lys Leu Ala Lys Lys Gln Lys Glu Thr Gln Ser Gly Ala
          35          40          45
Gln Arg Glu Met Gly Pro Val Ala Ser Ala Asp Lys Pro Thr Thr Lys
          50          55          60
Leu Ser Ala Ser Arg Asn Asp Glu Gly Phe Ser Ser Ser Ser Gln Asp
          65          70          75          80
Val Asn Gly Phe Asn Gly Ser Arg Gly Glu Leu Ser Gln Pro Thr Leu
          85          90          95
Thr Ile Gln Thr His Pro Tyr Arg Thr Cys Asp Pro Val Glu Met Ser
          100          105          110
Tyr Pro Arg Asp Gln Phe Gln Pro Ala Ile Arg Val Ala Asp Leu Leu
          115          120          125
Gln His Ile Thr Gln Met Lys Arg Gly Gln Gly Tyr Gly Phe Lys Glu
          130          135          140
Glu Tyr Glu Ala Leu Pro Glu Gly Gln Thr Ala Ser Trp Asp Thr Ala
          145          150          155          160
Lys Glu Asp Glu Asn Arg Asn Lys Asn Arg Tyr Gly Asn Ile Ile Ser
          165          170          175
Tyr Asp His Ser Arg Val Arg Leu Leu Val Leu Asp Gly Asp Pro His
          180          185          190
Ser Asp Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr His Arg Pro Arg
          195          200          205
His Tyr Ile Ala Thr Gln Gly Pro Met Gln Glu Thr Val Lys Asp Phe
          210          215          220
Trp Arg Met Ile Trp Gln Glu Asn Ser Ala Ser Ile Val Met Val Thr
          225          230          235          240
Asn Pro Gly *
          243

```

<210> 1246

<211> 565

<212> PRT

<213> Homo sapiens

<400> 1246

```

Met Ala Val Phe Arg Ser Gly Leu Leu Val Leu Thr Thr Pro Leu Ala
 1          5          10          15
Ser Leu Ala Pro Arg Leu Ala Ser Ile Leu Thr Ser Ala Ala Arg Leu
          20          25          30
Val Asn His Thr Leu Tyr Val His Leu Gln Pro Gly Met Ser Leu Glu
          35          40          45
Gly Pro Ala Gln Pro Gln Tyr Ser Pro Val Gln Ala Thr Phe Glu Val
          50          55          60
Leu Asp Phe Ile Thr His Leu Tyr Ala Gly Ala Asp Val His Arg His
          65          70          75          80
Leu Asp Val Arg Ile Leu Leu Thr Asn Ile Arg Thr Lys Ser Thr Phe
          85          90          95
Leu Pro Pro Leu Pro Thr Ser Val Gln Asn Leu Ala His Pro Pro Glu

```

			100					105				110					
Val	Val	Leu	Thr	Asp	Phe	Gln	Thr	Leu	Asp	Gly	Ser	Gln	Tyr	Asn	Pro		
		115						120				125					
Val	Lys	Gln	Gln	Leu	Val	Arg	Tyr	Ala	Thr	Ser	Cys	Tyr	Ser	Cys	Cys		
	130					135					140						
Pro	Arg	Leu	Ala	Ser	Val	Leu	Leu	Tyr	Ser	Asp	Tyr	Gly	Ile	Gly	Glu		
145					150					155					160		
Val	Pro	Val	Glu	Pro	Leu	Asp	Val	Pro	Leu	Pro	Ser	Thr	Ile	Arg	Pro		
			165						170					175			
Ala	Ser	Pro	Val	Ala	Gly	Ser	Pro	Lys	Gln	Pro	Val	Arg	Gly	Tyr	Tyr		
		180						185				190					
Arg	Gly	Ala	Val	Gly	Gly	Thr	Phe	Asp	Arg	Leu	His	Asn	Ala	His	Lys		
	195						200					205					
Val	Leu	Leu	Ser	Val	Ala	Cys	Ile	Leu	Ala	Gln	Glu	Gln	Leu	Val	Val		
	210					215					220						
Gly	Val	Ala	Asp	Lys	Asp	Leu	Leu	Lys	Ser	Lys	Leu	Leu	Pro	Glu	Leu		
225				230						235					240		
Leu	Gln	Pro	Tyr	Thr	Glu	Arg	Val	Glu	His	Leu	Ser	Glu	Phe	Leu	Val		
				245				250						255			
Asp	Ile	Lys	Pro	Ser	Leu	Thr	Phe	Asp	Val	Ile	Pro	Leu	Leu	Asp	Pro		
		260					265					270					
Tyr	Gly	Pro	Ala	Gly	Ser	Asp	Pro	Ser	Leu	Glu	Phe	Leu	Val	Val	Ser		
	275					280					285						
Glu	Glu	Thr	Tyr	Arg	Gly	Gly	Met	Ala	Ile	Asn	Arg	Phe	Arg	Leu	Glu		
	290				295					300							
Asn	Asp	Leu	Glu	Glu	Leu	Ala	Leu	Tyr	Gln	Ile	Gln	Leu	Leu	Lys	Asp		
305				310					315					320			
Leu	Arg	His	Thr	Glu	Asn	Glu	Glu	Asp	Lys	Val	Ser	Ser	Ser	Ser	Phe		
			325					330						335			
Arg	Gln	Arg	Met	Leu	Gly	Asn	Leu	Leu	Arg	Pro	Pro	Tyr	Glu	Arg	Pro		
		340					345					350					
Glu	Leu	Pro	Thr	Cys	Leu	Tyr	Val	Ile	Gly	Leu	Thr	Gly	Ile	Ser	Gly		
	355				360						365						
Ser	Gly	Lys	Ser	Ser	Ile	Ala	Gln	Arg	Leu	Lys	Gly	Leu	Gly	Ala	Phe		
	370				375			380									
Val	Ile	Asp	Ser	Asp	His	Leu	Gly	His	Arg	Ala	Tyr	Ala	Pro	Gly	Gly		
385				390				395						400			
Pro	Ala	Tyr	Gln	Pro	Val	Val	Glu	Ala	Phe	Gly	Thr	Asp	Ile	Leu	His		
			405					410						415			
Lys	Asp	Gly	Ile	Ile	Asn	Arg	Lys	Val	Leu	Gly	Ser	Arg	Val	Phe	Gly		
		420					425					430					
Asn	Lys	Lys	Gln	Leu	Lys	Ile	Leu	Thr	Asp	Ile	Met	Trp	Pro	Ile	Ile		
	435					440					445						
Ala	Lys	Leu	Ala	Arg	Glu	Glu	Met	Asp	Arg	Ala	Val	Ala	Glu	Gly	Lys		
	450				455					460							
Arg	Val	Cys	Val	Ile	Asp	Ala	Ala	Val	Leu	Leu	Glu	Ala	Gly	Trp	Gln		
465				470				475						480			
Asn	Leu	Val	His	Glu	Val	Trp	Thr	Ala	Val	Ile	Pro	Glu	Thr	Glu	Ala		
			485				490							495			
Val	Arg	Arg	Ile	Val	Glu	Arg	Asp	Gly	Leu	Ser	Glu	Ala	Ala	Ala	Gln		
		500					505					510					
Ser	Arg	Leu	Gln	Ser	Gln	Met	Ser	Gly	Gln	Gln	Leu	Val	Glu	Gln	Ser		
	515					520						525					
His	Val	Val	Leu	Ser	Thr	Leu	Trp	Glu	Pro	His	Ile	Thr	Gln	Arg	Gln		
	530				535					540							
Val	Glu	Lys	Ala	Trp	Ala	Leu	Leu	Gln	Lys	Arg	Ile	Pro	Lys	Thr	His		
545				550				555						560			
Gln	Ala	Leu	Asp	*													
			564														

<210> 1247
 <211> 737
 <212> PRT
 <213> Homo sapiens

<400> 1247
 Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val
 1 5 10 15
 Leu Trp Ala Leu Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala
 20 25 30
 Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe
 35 40 45
 Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu
 50 55 60
 Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro
 65 70 75 80
 Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile
 85 90 95
 Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly
 100 105 110
 His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro
 115 120 125
 Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu
 130 135 140
 Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Arg Asp
 145 150 155 160
 Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg
 165 170 175
 Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met
 180 185 190
 Pro Gln Tyr Phe Val Gly Val Ser Ser Arg Pro Leu Trp His Thr Val
 195 200 205
 Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr
 210 215 220
 Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val
 225 230 235 240
 Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser
 245 250 255
 Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile
 260 265 270
 Ala Thr Glu Ser Thr Leu Phe Ile Arg Gln Asn Gln Leu Val Tyr Tyr
 275 280 285
 Phe Thr Gly Thr Tyr Thr Thr Leu Tyr Glu Arg Asn Arg Gly Ser Gly
 290 295 300
 Glu Cys Ala Val Ala Gly Pro Thr Pro Gly Glu Gly Thr Leu Val Asn
 305 310 315 320
 Pro Ser Thr Glu Gly Ser Trp Ile Arg Val Leu Ala Ser Glu Cys Ile
 325 330 335
 Lys Lys Leu Cys Pro Val Tyr Phe His Ser Asn Gly Ser Glu Tyr Ile
 340 345 350
 Met Ala Leu Thr Thr Gly Lys His Glu Gly Tyr Val His Phe Gly Thr
 355 360 365
 Ile Arg Val Thr Thr Cys Ser Ile Ile Trp Ser Glu Tyr Ile Ala Gly
 370 375 380
 Glu Tyr Thr Leu Leu Leu Leu Val Glu Ser Gly Tyr Gly Asn Ala Ser

```

385          390          395          400
Lys Arg Phe Gln Val Val Ser Tyr Asn Thr Ala Ser Asp Asp Leu Glu
          405          410          415
Leu Leu Tyr His Ile Pro Glu Phe Ile Pro Glu Ala Arg Gly Leu Glu
          420          425          430
Phe Leu Met Ile Leu Gly Thr Glu Ser Tyr Thr Ser Thr Ala Met Ala
          435          440          445
Pro Lys Gly Ile Phe Cys Asn Pro Tyr Asn Asn Leu Ile Phe Ile Trp
          450          455          460
Gly Asn Phe Leu Leu Gln Ser Ser Asn Lys Glu Asn Phe Ile Tyr Leu
465          470          475          480
Ala Asp Phe Pro Lys Glu Leu Ser Ile Lys Tyr Met Ala Arg Ser Phe
          485          490          495
Arg Gly Ala Val Ala Ile Val Thr Glu Thr Glu Glu Ile Trp Tyr Leu
          500          505          510
Leu Glu Gly Ser Tyr Arg Val Tyr Gln Leu Phe Pro Ser Lys Gly Trp
          515          520          525
Gln Val His Ile Ser Leu Lys Leu Met Gln Gln Ser Ser Leu Tyr Ala
530          535          540
Ser Asn Glu Thr Met Leu Thr Leu Phe Tyr Glu Asp Ser Lys Leu Tyr
545          550          555          560
Gln Leu Val Tyr Leu Met Asn Asn Gln Lys Gly Gln Leu Val Lys Arg
          565          570          575
Leu Val Pro Val Glu Gln Leu Leu Met Tyr Gln Gln His Thr Ser His
          580          585          590
Tyr Asp Leu Glu Arg Lys Gly Gly Tyr Leu Met Leu Ser Phe Ile Asp
          595          600          605
Phe Cys Pro Phe Ser Val Met Arg Leu Arg Ser Leu Pro Ser Pro Gln
610          615          620
Arg Tyr Thr Arg Gln Glu Arg Tyr Arg Ala Arg Pro Pro Arg Val Leu
625          630          635          640
Glu Arg Ser Gly Phe Pro Gln Gly Glu Leu Ala Arg His Leu Pro Gly
          645          650          655
Pro Gly Leu Leu Pro Ala Val Ala Ala Leu Arg Val Arg Gln Ala Val
          660          665          670
Arg Gly Pro Gly Ala Arg Pro His Leu Ala Leu Val Gly Glu Gln Gln
          675          680          685
Thr Arg Pro Gly Leu Leu Leu Leu Leu Gly Glu Gln Leu Ala Lys Arg
          690          695          700
Gly Arg Arg Val His Arg Asn Gly Gln Leu Arg Lys Asp Leu Gln Pro
705          710          715          720
Arg Val Arg Val Arg Ala Ala Gly Ala His Phe Pro Gly Gln Gly His
          725          730          735 736

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<210> 1248
<211> 175
<212> PRT
<213> Homo sapiens

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```

<400> 1248
Met Gly Trp Val Trp Thr Leu Cys Thr Ala Ser Ala Cys Leu Thr Leu
  1          5          10          15
Leu Phe Trp Ser Gln Thr Pro Gly Lys Ala Phe Gln Ile Pro Cys Pro
          20          25          30

```

```

Pro Pro His Leu Ser His Trp Cys Leu Ser Pro Met Gln Met Asp Asp
      35              40              45
Gly Cys Ala Arg Leu Cys Val Leu Trp Thr Ala Trp Met Arg Trp Arg
      50              55              60
Val Leu Met Cys Ser Cys Arg Val Trp Ala Thr Asp Leu Gly Ile Phe
      65              70              75              80
Leu Gly Val Ala Leu Gly Asn Glu Pro Leu Glu Met Trp Pro Leu Thr
      85              90              95
Gln Asn Glu Glu Cys Thr Val Thr Gly Phe Leu Arg Asp Lys Leu Gln
      100             105             110
Tyr Arg Ser Arg Leu Gln Tyr Met Lys His Tyr Phe Pro Ile Asn Tyr
      115             120             125
Lys Ile Arg Val Pro Tyr Glu Gly Val Phe Arg Ile Ala Asn Val Thr
      130             135             140
Arg Leu Arg Ala Gln Gly Ser Glu Arg Glu Leu Arg Tyr Leu Gly Val
      145             150             155             160
Leu Val Ser Leu Ser Ala Thr Glu Ser Val His Asp Glu Leu Leu
      165             170             175

```

<210> 1249
 <211> 68
 <212> PRT
 <213> Homo sapiens

```

<400> 1249
Met Phe His Arg Cys Arg Leu Lys Ala Gly Leu Met Leu Trp Arg Ser
  1              5              10              15
Leu Glu Ser Gly Leu Cys Ala Gly Ala His Arg Leu Trp Leu Glu Gly
      20              25              30
Pro Met Ala Phe Pro Glu Leu Gly Glu Lys Asp Pro Leu Leu Ala Ser
      35              40              45
Pro Leu Ala Leu Ile Pro Gln Ser Leu Ile Gly Leu Gly Gly Leu Arg
      50              55              60
Gly Ala Trp *
      65              67

```

<210> 1250
 <211> 209
 <212> PRT
 <213> Homo sapiens

```

<400> 1250
Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys
  1              5              10              15
Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser
      20              25              30
Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser
      35              40              45
Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro
      50              55              60
Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro
      65              70              75              80
Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met

```


				85					90					95					
Ala	Phe	Phe	Ile	Ala	Cys	Val	Thr	Ser	Phe	Ser	Ile	Phe	Glu	Lys	Thr				
			100					105					110						
Ser	Glu	Glu	Glu	Leu	Gln	Leu	Lys	Ser	Phe	Ser	Ile	Ser	Val	Arg	Lys				
		115					120					125							
Tyr	Leu	Pro	Cys	Phe	Thr	Phe	Leu	Ser	Arg	Ile	Ile	Gln	Tyr	Leu	Phe				
	130						135					140							
Leu	Ile	Ser	Val	Ile	Thr	Met	Val	Leu	Leu	Thr	Leu	Met	Thr	Val	Thr				
145					150					155					160				
Leu	Asp	Pro	Pro	Gln	Lys	Leu	Pro	Asp	Leu	Phe	Ser	Val	Leu	Val	Cys				
				165				170							175				
Phe	Val	Ser	Cys	Leu	Asn	Phe	Leu	Phe	Phe	Leu	Val	Tyr	Phe	Asn	Ile				
			180					185					190						
Ile	Ile	Met	Trp	Asp	Ser	Lys	Ser	Gly	Arg	Asn	Gln	Lys	Lys	Ile	Ser				
		195					200					205			208				

*

<210> 1251
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1251

Met	Ile	Leu	Leu	Leu	Ser	Thr	Phe	Phe	Cys	Cys	Phe	Arg	Glu	Asp	Ser				
1				5					10					15					
Cys	Phe	Tyr	Lys	Lys	Tyr	Val	Gly	Leu	Val	Gln	Trp	Leu	Met	Pro	Val				
			20					25					30						
Ile	Pro	Ala	Leu	Trp	Glu	Ala	Lys	Val	Gly	Gly	Ser	Leu	Glu	Val	Trp				
		35					40					45							
Ser	Ser	Arg	Pro	Ala	Trp	Pro	Ile	Arg	*										
	50					55		57											

<210> 1252
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1252

Met	Tyr	Lys	Asn	Phe	Cys	Leu	Phe	Phe	Ile	Phe	Ala	Leu	Tyr	Gln	Gly				
1				5					10					15					
Leu	Ala	Asn	Tyr	Gly	Leu	Trp	Ala	Asn	Ser	Asn	Pro	Leu	His	Val	Ser				
			20					25					30						
Val	Tyr	Lys	Ile	Leu	Leu	Gly	Cys	Val	Pro	Trp	Leu	Leu	Ser	Val	Val				
		35					40					45							
Ser	Ala	Ser	Arg	Val	Ala	Gly	Thr	Thr	Gly	Thr	His	His	Tyr	Ala	Trp				
	50					55					60								
Ile	Ile	Phe	Cys	Ile	Phe	Ser	Thr	Asp	Gly	Val	Ser	Pro	Arg	Trp	Pro				
65					70					75					80				
Arg	Trp	Ser	*																
		83																	

<210> 1253
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1253
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45
 Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Glu
 50 55 60
 Gly Ala Gly Val Gly Leu Arg Phe *
 65 70 72

<210> 1254
 <211> 209
 <212> PRT
 <213> Homo sapiens

<400> 1254
 Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys
 1 5 10 15
 Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser
 20 25 30
 Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser
 35 40 45
 Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro
 50 55 60
 Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro
 65 70 75 80
 Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met
 85 90 95
 Ala Phe Phe Ile Ala Cys Val Thr Ser Phe Ser Ile Phe Glu Lys Thr
 100 105 110
 Ser Glu Glu Glu Leu Gln Leu Lys Ser Phe Ser Ile Ser Val Arg Lys
 115 120 125
 Tyr Leu Pro Cys Phe Thr Phe Leu Ser Arg Ile Ile Gln Tyr Leu Phe
 130 135 140
 Leu Ile Ser Val Ile Thr Met Val Leu Leu Thr Leu Met Thr Val Thr
 145 150 155 160
 Leu Asp Pro Pro Gln Lys Leu Pro Asp Leu Phe Ser Val Leu Val Cys
 165 170 175
 Phe Val Ser Cys Leu Asn Phe Leu Phe Phe Leu Val Tyr Phe Asn Ile
 180 185 190
 Ile Ile Met Trp Asp Ser Lys Ser Gly Arg Asn Gln Lys Lys Ile Ser
 195 200 205 208
 *

<210> 1255
 <211> 730
 <212> PRT
 <213> Homo sapiens

<400> 1255
 Met Gly Pro Trp Gly Trp Lys Leu Arg Trp Thr Val Ala Leu Leu Leu
 1 5 10 15
 Ala Ala Ala Gly Thr Ala Val Gly Asp Arg Cys Glu Arg Asn Glu Phe
 20 25 30
 Gln Cys Gln Asp Gly Lys Cys Ile Ser Tyr Lys Trp Val Cys Asp Gly
 35 40 45
 Ser Ala Glu Cys Gln Asp Gly Ser Asp Glu Ser Gln Glu Thr Cys Leu
 50 55 60
 Ser Val Thr Cys Lys Ser Gly Asp Phe Ser Cys Gly Gly Arg Val Asn
 65 70 75 80
 Arg Cys Ile Pro Gln Phe Trp Arg Cys Asp Gly Gln Val Asp Cys Asp
 85 90 95
 Asn Gly Ser Asp Glu Gln Gly Cys Pro Pro Lys Thr Cys Ser Gln Asp
 100 105 110
 Glu Phe Arg Cys His Asp Gly Lys Cys Ile Ser Arg Gln Phe Val Cys
 115 120 125
 Asp Ser Asp Arg Asp Cys Leu Asp Gly Ser Asp Glu Ala Ser Cys Pro
 130 135 140
 Val Leu Thr Cys Gly Pro Ala Ser Phe Gln Cys Asn Ser Ser Thr Cys
 145 150 155 160
 Ile Pro Gln Leu Trp Ala Cys Asp Asn Asp Pro Asp Cys Glu Asp Gly
 165 170 175
 Ser Asp Glu Trp Pro Gln Arg Cys Arg Gly Leu Tyr Val Phe Gln Gly
 180 185 190
 Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser Gly Glu
 195 200 205
 Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys Lys Asp
 210 215 220
 Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro Asp Glu
 225 230 235 240
 Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln Cys Asp
 245 250 255
 Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys Val Asn
 260 265 270
 Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser Gly Glu
 275 280 285
 Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys Arg Asp
 290 295 300
 Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys Leu Asp
 305 310 315 320
 Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile Gly Tyr
 325 330 335
 Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg Arg Cys
 340 345 350
 Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln Leu Cys
 355 360 365
 Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly Phe Gln
 370 375 380
 Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile Ala Tyr
 385 390 395 400
 Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu Asp Arg
 405 410 415

```

Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val Ala Leu
      420                      425                      430
Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu Ser Gln
      435                      440                      445
Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val Ser Ser
      450                      455                      460
Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly Leu Ala
465      470                      475                      480
Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val Leu Gly
      485                      490                      495
Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr Leu Phe
      500                      505                      510
Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro Val His
      515                      520                      525
Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile Lys Lys
      530                      535                      540
Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu Asn Ile
545      550                      555                      560
Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg Leu Tyr
      565                      570                      575
Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val Asn Gly
      580                      585                      590
Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala His Pro
      595                      600                      605
Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp Ile Ile
      610                      615                      620
Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp Val Asn
625      630                      635                      640
Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu Phe His
      645                      650                      655
Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr Thr Leu
      660                      665                      670
Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln Ile Asn
      675                      680                      685
Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met Leu Leu
      690                      695                      700
Ala Arg Gly His Glu Glu Leu Pro His Arg Gly Leu Arg Leu Gln Trp
705      710                      715                      720
Pro Pro Arg Arg His Pro Pro Ser Gly *
      725                      729

```

<210> 1256

<211> 264

<212> PRT

<213> Homo sapiens

<400> 1256

```

Met Arg Gly Asn Leu Ala Leu Val Gly Val Leu Ile Ser Leu Ala Phe
  1      5      10      15
Leu Ser Leu Leu Pro Ser Gly His Pro Gln Pro Ala Gly Asp Asp Ala
      20      25      30
Cys Ser Val Gln Ile Leu Val Pro Gly Leu Lys Gly Asp Ala Gly Glu
      35      40      45
Lys Gly Asp Lys Gly Ala Pro Gly Arg Pro Gly Arg Val Gly Pro Thr
      50      55      60
Gly Glu Lys Gly Asp Met Gly Asp Lys Gly Gln Lys Gly Ser Val Gly

```

65					70					75					80
Arg	His	Gly	Lys	Ile	Gly	Pro	Ile	Gly	Ser	Lys	Gly	Glu	Lys	Gly	Asp
				85					90					95	
Ser	Gly	Asp	Ile	Gly	Pro	Pro	Gly	Pro	Asn	Gly	Glu	Pro	Gly	Leu	Pro
			100					105					110		
Cys	Glu	Cys	Ser	Gln	Leu	Arg	Lys	Ala	Ile	Gly	Glu	Met	Asp	Asn	Gln
		115					120					125			
Val	Ser	Gln	Leu	Thr	Ser	Glu	Leu	Lys	Phe	Ile	Lys	Asn	Ala	Val	Ala
	130					135					140				
Gly	Val	Arg	Glu	Thr	Glu	Ser	Lys	Ile	Tyr	Leu	Leu	Val	Lys	Glu	Glu
145					150					155					160
Lys	Arg	Tyr	Ala	Asp	Ala	Gln	Leu	Ser	Cys	Gln	Gly	Arg	Gly	Gly	Thr
			165						170					175	
Leu	Ser	Met	Pro	Lys	Asp	Glu	Ala	Ala	Asn	Gly	Leu	Met	Ala	Ala	Tyr
		180						185					190		
Leu	Ala	Gln	Ala	Gly	Leu	Ala	Arg	Val	Phe	Ile	Gly	Ile	Asn	Asp	Leu
		195					200					205			
Glu	Lys	Glu	Gly	Ala	Phe	Val	Tyr	Ser	Asp	His	Ser	Pro	Met	Arg	Thr
	210					215					220				
Phe	Asn	Lys	Trp	Arg	Ser	Gly	Glu	Pro	Asn	Asn	Ala	Tyr	Asp	Glu	Glu
225					230				235						240
Asp	Cys	Val	Glu	Met	Val	Ala	Ser	Gly	Gly	Trp	Asn	Asp	Val	Ala	Cys
			245						250					255	
His	Thr	Thr	Met	Tyr	Phe	Met	*								
			260			263									

<210> 1257

<211> 407

<212> PRT

<213> Homo sapiens

<400> 1257

Met	Ser	Gly	Ala	Pro	Thr	Ala	Gly	Ala	Ala	Leu	Met	Leu	Cys	Ala	Ala
1				5				10						15	
Thr	Ala	Val	Leu	Leu	Ser	Ala	Gln	Gly	Gly	Pro	Val	Gln	Ser	Lys	Ser
			20					25					30		
Pro	Arg	Phe	Ala	Ser	Trp	Asp	Glu	Met	Asn	Val	Leu	Ala	His	Gly	Leu
		35					40					45			
Leu	Gln	Leu	Gly	Gln	Gly	Leu	Arg	Glu	His	Ala	Glu	Arg	Thr	Arg	Ser
	50					55					60				
Gln	Leu	Ser	Ala	Leu	Glu	Arg	Arg	Leu	Ser	Ala	Cys	Gly	Ser	Ala	Cys
65					70					75					80
Gln	Gly	Thr	Glu	Gly	Ser	Thr	Asp	Leu	Pro	Leu	Ala	Pro	Glu	Ser	Arg
			85					90					95		
Val	Asp	Pro	Glu	Val	Leu	His	Ser	Leu	Gln	Thr	Gln	Leu	Lys	Ala	Gln
		100						105					110		
Asn	Ser	Arg	Ile	Gln	Gln	Leu	Phe	His	Lys	Val	Ala	Gln	Gln	Gln	Arg
		115					120					125			
His	Leu	Glu	Lys	Gln	His	Leu	Arg	Ile	Gln	His	Leu	Gln	Ser	Gln	Phe
	130					135					140				
Gly	Leu	Leu	Asp	His	Lys	His	Leu	Asp	His	Glu	Val	Ala	Lys	Pro	Ala
145					150					155					160
Arg	Arg	Lys	Arg	Leu	Pro	Glu	Met	Ala	Gln	Pro	Val	Asp	Pro	Ala	His
			165						170					175	
Asn	Val	Ser	Arg	Leu	His	Arg	Leu	Pro	Arg	Asp	Cys	Gln	Glu	Leu	Phe
			180					185					190		

```

Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln Pro Gln Gly
      195                200                205
Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp Gly Gly Trp
      210                215                220
Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe Asn Arg Pro
      225                230                235                240
Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly Glu Phe Trp
      245                250                255
Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg Asn Ser Arg
      260                265                270
Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu Leu Leu Gln
      275                280                285
Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser Leu Gln Leu
      290                295                300
Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val Pro Pro Ser
      305                310                315                320
Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His Asp Leu Arg
      325                330                335
Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp Trp Phe Gly
      340                345                350
Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg Ser Ile Pro
      355                360                365
Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys Thr Trp Arg
      370                375                380
Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile Gln Pro Met
      385                390                395                400
Ala Ala Glu Ala Ala Ser *
      405 406

```

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<210> 1258
<211> 120
<212> PRT
<213> Homo sapiens

```

```

<400> 1258
Met Met Thr Pro Lys Leu Met Ile Trp Leu Leu Leu Gln Ala Lys Ser
  1      5      10      15
Ser Ile Ser Met Leu Glu Lys Ser Ser Lys Cys Leu Gly Arg Cys Phe
      20      25      30
Ser Ser Phe Ala Lys Asn Leu Val Met Ile Gln Ser Cys Val Ser Trp
      35      40      45
Ala Leu Met Ser Glu Asn Phe Tyr Arg Thr Leu Met Leu Cys Thr Thr
      50      55      60
Thr Leu Leu Pro Ser Thr Gln Glu Cys Val His Leu Pro Leu Gly Ala
      65      70      75      80
Leu Met Gln Lys Arg Ala Lys Asp Ser Phe Cys Thr Thr Thr Gln Arg
      85      90      95
Glu Lys Asp Phe Arg Ile Leu Ser Leu Glu Ser Ser Lys Gln Trp His
      100      105      110
Asn Lys Ser Met Ala Leu Lys *
      115      119

```

```

<210> 1259
<211> 160

```

<212> PRT

<213> Homo sapiens

<400> 1259

```

Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
 1          5          10          15
Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
          20          25          30
Arg Pro Arg Phe Leu Glu Tyr Ser Thr Gly Glu Cys Tyr Phe Phe Asn
          35          40          45
Gly Thr Glu Arg Val Arg Phe Leu Asp Arg Tyr Phe Tyr Asn Gln Glu
          50          55          60
Glu Tyr Val Arg Phe Asp Ser Asp Val Gly Glu Tyr Arg Ala Val Thr
          65          70          75          80
Glu Leu Gly Arg Pro Asp Ala Glu Tyr Leu Glu Gln Pro Glu Gly Arg
          85          90          95
Pro Trp Asn Ser Gln Lys Asp Ile Leu Glu Asp Glu Arg Ala Ala Val
          100          105          110
Asp Thr Tyr Cys Arg His Asn Tyr Gly Val Val Glu Ser Phe Thr Val
          115          120          125
Gln Arg Arg Val His Pro Lys Val Thr Val Tyr Pro Ser Lys Thr Gln
          130          135          140
Pro Leu Gln Ala Pro Gln Pro Ala Val Leu Phe Cys Glu Trp Phe *
145          150          155          159

```

<210> 1260

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1260

```

Met Leu Thr Phe Leu Met Leu Val Arg Leu Ser Thr Leu Cys Pro Ser
 1          5          10          15
Ala Val Leu Gln Arg Leu Asp Arg Leu Val Glu Pro Leu Arg Ala Thr
          20          25          30
Cys Thr Thr Lys Val Lys Ala Asn Ser Val Lys Gln Glu Phe Glu Lys
          35          40          45
Gln Asp Glu Leu Lys Arg Ser Ala Met Arg Ala Val Ala Ala Leu Leu
          50          55          60
Thr Ile Pro Glu Ala Glu Lys Ser Pro Leu Met Ser Glu Phe Gln Ser
          65          70          75          80
Gln Ile Ser Ser Asn Pro Glu Leu Ala Ala Ile Phe Glu Ser Ile Gln
          85          90          95
Lys Asp Ser Ser Ser Thr Asn Leu Glu Ser Met Asp Thr Ser *
          100          105          110

```

<210> 1261

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1261

```

Met Ile Pro Ala Arg Phe Ala Gly Val Leu Leu Ala Leu Ala Leu Ile
 1           5           10           15
Leu Pro Gly Thr Leu Cys Ala Glu Gly Thr Arg Gly Arg Ser Ser Thr
           20           25           30
Ala Arg Cys Ser Leu Phe Gly Ser Asp Phe Val Asn Thr Phe Asp Gly
           35           40           45
Ser Met Tyr Ser Phe Ala Gly Tyr Cys Ser Tyr Leu Leu Ala Gly Gly
           50           55           60
Cys Gln Lys Arg Ser Phe Ser Ile Ile Gly Asp Phe Gln Asn Gly Lys
           65           70           75           80
Arg Val Ser Leu Ser Val Tyr Leu Gly Glu Phe Phe Asp Ile His Leu
           85           90           95
Phe Val Asn Gly Thr Val Thr Gln Gly Asp Gln Arg Val Ser Met Pro
           100           105           110
Tyr Ala Ser Lys Gly Leu Tyr Leu Glu Thr *
           115           120           122

```

<210> 1262
 <211> 737
 <212> PRT
 <213> Homo sapiens

```

<400> 1262
Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val
 1           5           10           15
Leu Trp Ala Leu Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala
           20           25           30
Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe
           35           40           45
Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu
           50           55           60
Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro
           65           70           75           80
Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile
           85           90           95
Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly
           100           105           110
His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro
           115           120           125
Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu
           130           135           140
Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Arg Asp
           145           150           155           160
Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg
           165           170           175
Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met
           180           185           190
Pro Gln Tyr Phe Val Gly Val Ser Ser Arg Pro Leu Trp His Thr Val
           195           200           205
Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr
           210           215           220
Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val
           225           230           235           240
Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser
           245           250           255
Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile

```


			260					265					270				
Ala	Thr	Glu	Ser	Thr	Leu	Phe	Ile	Arg	Gln	Asn	Gln	Leu	Val	Tyr	Tyr		
		275					280					285					
Phe	Thr	Gly	Thr	Tyr	Thr	Thr	Leu	Tyr	Glu	Arg	Asn	Arg	Gly	Ser	Gly		
	290					295					300						
Glu	Cys	Ala	Val	Ala	Gly	Pro	Thr	Pro	Gly	Glu	Gly	Thr	Leu	Val	Asn		
305					310					315					320		
Pro	Ser	Thr	Glu	Gly	Ser	Trp	Ile	Arg	Val	Leu	Ala	Ser	Glu	Cys	Ile		
			325						330					335			
Lys	Lys	Leu	Cys	Pro	Val	Tyr	Phe	His	Ser	Asn	Gly	Ser	Glu	Tyr	Ile		
		340						345					350				
Met	Ala	Leu	Thr	Thr	Gly	Lys	His	Glu	Gly	Tyr	Val	His	Phe	Gly	Thr		
	355						360					365					
Ile	Arg	Val	Thr	Thr	Cys	Ser	Ile	Ile	Trp	Ser	Glu	Tyr	Ile	Ala	Gly		
	370					375					380						
Glu	Tyr	Thr	Leu	Leu	Leu	Val	Glu	Ser	Gly	Tyr	Gly	Asn	Ala	Ser			
385					390				395						400		
Lys	Arg	Phe	Gln	Val	Val	Ser	Tyr	Asn	Thr	Ala	Ser	Asp	Asp	Leu	Glu		
			405					410						415			
Leu	Leu	Tyr	His	Ile	Pro	Glu	Phe	Ile	Pro	Glu	Ala	Arg	Gly	Leu	Glu		
			420					425					430				
Phe	Leu	Met	Ile	Leu	Gly	Thr	Glu	Ser	Tyr	Thr	Ser	Thr	Ala	Met	Ala		
	435						440					445					
Pro	Lys	Gly	Ile	Phe	Cys	Asn	Pro	Tyr	Asn	Asn	Leu	Ile	Phe	Ile	Trp		
	450					455					460						
Gly	Asn	Phe	Leu	Leu	Gln	Ser	Ser	Asn	Lys	Glu	Asn	Phe	Ile	Tyr	Leu		
465					470					475					480		
Ala	Asp	Phe	Pro	Lys	Glu	Leu	Ser	Ile	Lys	Tyr	Met	Ala	Arg	Ser	Phe		
			485					490						495			
Arg	Gly	Ala	Val	Ala	Ile	Val	Thr	Glu	Thr	Glu	Glu	Ile	Trp	Tyr	Leu		
			500					505					510				
Leu	Glu	Gly	Ser	Tyr	Arg	Val	Tyr	Gln	Leu	Phe	Pro	Ser	Lys	Gly	Trp		
	515						520					525					
Gln	Val	His	Ile	Ser	Leu	Lys	Leu	Met	Gln	Gln	Ser	Ser	Leu	Tyr	Ala		
	530					535					540						
Ser	Asn	Glu	Thr	Met	Leu	Thr	Leu	Phe	Tyr	Glu	Asp	Ser	Lys	Leu	Tyr		
545					550					555					560		
Gln	Leu	Val	Tyr	Leu	Met	Asn	Asn	Gln	Lys	Gly	Gln	Leu	Val	Lys	Arg		
			565					570						575			
Leu	Val	Pro	Val	Glu	Gln	Leu	Leu	Met	Tyr	Gln	Gln	His	Thr	Ser	His		
			580					585					590				
Tyr	Asp	Leu	Glu	Arg	Lys	Gly	Gly	Tyr	Leu	Met	Leu	Ser	Phe	Ile	Asp		
	595						600					605					
Phe	Cys	Pro	Phe	Ser	Val	Met	Arg	Leu	Arg	Ser	Leu	Pro	Ser	Pro	Gln		
	610					615					620						
Arg	Tyr	Thr	Arg	Gln	Glu	Arg	Tyr	Arg	Ala	Arg	Pro	Pro	Arg	Val	Leu		
625					630				635						640		
Glu	Arg	Ser	Gly	Phe	Pro	Gln	Gly	Glu	Leu	Ala	Arg	His	Leu	Pro	Gly		
			645					650					655				
Pro	Gly	Leu	Leu	Pro	Ala	Val	Ala	Ala	Leu	Arg	Val	Arg	Gln	Ala	Val		
		660						665					670				
Arg	Gly	Pro	Gly	Ala	Arg	Pro	His	Leu	Ala	Leu	Val	Gly	Glu	Gln	Gln		
	675						680					685					
Thr	Arg	Pro	Gly	Leu	Leu	Leu	Leu	Leu	Gly	Glu	Gln	Leu	Ala	Lys	Arg		
	690					695					700						
Gly	Arg	Arg	Val	His	Arg	Asn	Gly	Gln	Leu	Arg	Lys	Asp	Leu	Gln	Pro		
705					710					715					720		
Arg	Val	Arg	Val	Arg	Ala	Ala	Gly	Ala	His	Phe	Pro	Gly	Gln	Gly	His		
			725					730						735	736		

*

<210> 1263
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1263
 Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu
 1 5 10 15
 Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro
 20 25 30
 Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg *
 35 40 45 47

<210> 1264
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1264
 Met Met Tyr Ile Leu Phe Leu Gln Ala Phe Ile Leu Asp Tyr Tyr Gln
 1 5 10 15
 Tyr Phe Leu Gly Leu Asn Cys Val Tyr Ser Tyr Gln Ser Lys Lys Asp
 20 25 30
 Phe Ser Gln Ile Trp Ser Gln Gly Trp Phe Ala Leu Leu Trp Ile Leu
 35 40 45
 Cys Leu Ser Arg Ile Leu Glu Ser Phe Phe Phe Leu *
 50 55 60

<210> 1265
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1265
 Met Val Gly Phe Leu Cys Cys Phe Tyr Leu Phe Gln Leu Leu Gly Pro
 1 5 10 15
 Gly Leu Leu Cys Leu Pro Lys Ala Val Leu Ser Phe Leu Gly Leu Leu
 20 25 30
 Glu Ala Ala His His Leu Leu Val Lys Gly Phe Leu Leu Pro Val Leu
 35 40 45
 Asp Leu Pro Gln Val Ile Val His Gln *
 50 55 57

<210> 1266
 <211> 148

<212> PRT

<213> Homo sapiens

```

<400> 1266
Met Ala Leu Gln Leu Trp Ala Leu Thr Leu Leu Gly Leu Leu Gly Ala
 1          5          10          15
Gly Ala Ser Leu Arg Pro Arg Lys Leu Asp Phe Phe Arg Ser Glu Lys
          20          25          30
Glu Leu Asn His Leu Ala Val Asp Glu Ala Ser Gly Val Val Tyr Leu
          35          40          45
Gly Ala Val Asn Ala Leu Tyr Gln Leu Asp Ala Lys Leu Gln Leu Glu
          50          55          60
Gln Gln Val Ala Thr Gly Pro Val Leu Asp Asn Lys Lys Cys Thr Pro
          65          70          75          80
Pro Ile Glu Ala Ser Gln Cys His Glu Ala Glu Met Thr Asp Asn Val
          85          90          95
Asn Gln Leu Leu Leu Val Asp Pro Pro Arg Lys Arg Leu Val Glu Cys
          100          105          110
Gly Gln Leu Leu Lys Gly Ile Leu Arg Ser Ala Arg Pro Glu Gln His
          115          120          125
Leu Pro Pro Pro Val Leu Arg Gly Arg Gln Arg Gly Glu Val Phe Arg
          130          135          140
Gly Gln Gln *
145          147

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<210> 1267

<211> 227

<212> PRT

<213> Homo sapiens

```

<400> 1267
Met Arg Trp Leu Trp Pro Leu Ala Val Ser Leu Ala Val Ile Leu Ala
 1          5          10          15
Val Gly Leu Ser Arg Val Ser Gly Gly Ala Pro Leu His Leu Gly Arg
          20          25          30
His Arg Ala Glu Thr Gln Glu Gln Gln Ser Arg Ser Lys Arg Gly Thr
          35          40          45
Glu Asp Glu Glu Ala Lys Gly Val Gln Gln Tyr Val Pro Glu Glu Trp
          50          55          60
Ala Glu Tyr Pro Arg Pro Ile His Pro Ala Gly Leu Gln Pro Thr Lys
          65          70          75          80
Pro Leu Val Ala Thr Ser Pro Asn Pro Asp Lys Asp Gly Gly Thr Pro
          85          90          95
Asp Ser Gly Gln Glu Leu Arg Gly Asn Leu Thr Gly Ala Pro Gly Gln
          100          105          110
Arg Leu Gln Ile Gln Asn Pro Leu Tyr Pro Val Thr Glu Ser Ser Tyr
          115          120          125
Ser Ala Tyr Ala Ile Met Leu Leu Ala Leu Val Glu Phe Ala Ala Gly
          130          135          140
Ile Val Gly Asn Leu Ser Val Met Cys Ile Ala Trp His Ser Tyr Tyr
145          150          155          160
Leu Lys Ser Ala Trp Asn Ser Ile Leu Ala Ser Leu Ala Leu Trp Asp
          165          170          175
Phe Leu Val Leu Phe Phe Cys Leu Pro Ile Val Ile Leu Asn Glu Ile
          180          185          190

```

Thr Lys Gln Arg Leu Leu Gly Asp Ala Pro Cys Pro Cys Arg Ala Leu
 195 200 205
 His Gly Gly Leu Leu Ser Gly Ser His Asp Phe Gln Pro Leu Cys Pro
 210 215 220
 Gly His *
 225 226

<210> 1268
 <211> 983
 <212> PRT
 <213> Homo sapiens

<400> 1268
 Met Leu Gly Asn Val Leu Leu Leu Cys Phe Phe Val Phe Phe Ile Phe
 1 5 10 15
 Gly Ile Val Gly Val Gln Leu Trp Ala Gly Leu Leu Arg Asn Arg Cys
 20 25 30
 Phe Leu Pro Glu Asn Phe Ser Leu Pro Leu Ser Val Asp Leu Glu Arg
 35 40 45
 Tyr Tyr Gln Thr Glu Asn Glu Asp Glu Ser Pro Phe Ile Cys Ser Gln
 50 55 60
 Pro Arg Glu Asn Gly Met Arg Ser Cys Arg Ser Val Pro Thr Leu Arg
 65 70 75 80
 Gly Asp Gly Gly Gly Gly Pro Pro Cys Gly Leu Asp Tyr Glu Ala Tyr
 85 90 95
 Asn Ser Ser Ser Asn Thr Thr Cys Val Asn Trp Asn Gln Tyr Tyr Thr
 100 105 110
 Asn Cys Ser Ala Gly Glu His Asn Pro Phe Lys Gly Ala Ile Asn Phe
 115 120 125
 Asp Asn Ile Gly Tyr Ala Trp Ile Ala Ile Phe Gln Val Ile Thr Leu
 130 135 140
 Glu Gly Trp Val Asp Ile Met Tyr Phe Val Met Asp Ala His Ser Phe
 145 150 155 160
 Tyr Asn Phe Ile Tyr Phe Ile Leu Leu Ile Ile Val Gly Ser Phe Phe
 165 170 175
 Met Ile Asn Leu Cys Leu Val Val Ile Ala Thr Gln Phe Ser Glu Thr
 180 185 190
 Lys Gln Arg Glu Ser Gln Leu Met Arg Glu Gln Arg Val Arg Phe Leu
 195 200 205
 Ser Asn Ala Ser Thr Leu Ala Ser Phe Ser Glu Pro Gly Ser Cys Tyr
 210 215 220
 Glu Glu Leu Leu Lys Tyr Leu Val Tyr Ile Leu Arg Lys Ala Ala Arg
 225 230 235 240
 Arg Leu Ala Gln Val Ser Arg Ala Ala Gly Val Arg Val Gly Leu Leu
 245 250 255
 Ser Ser Pro Ala Pro Leu Gly Gly Gln Glu Thr Gln Pro Ser Ser Ser
 260 265 270
 Cys Ser Arg Ser His Arg Arg Leu Ser Val His His Leu Val His His
 275 280 285
 His His His His His His Tyr His Leu Gly Asn Gly Thr Leu Arg
 290 295 300
 Ala Pro Arg Ala Ser Pro Glu Ile Gln Asp Arg Asp Ala Asn Gly Ser
 305 310 315 320
 Arg Arg Leu Met Leu Pro Pro Pro Ser Thr Pro Ala Leu Ser Gly Ala
 325 330 335
 Pro Pro Gly Gly Ala Glu Ser Val His Ser Phe Tyr His Ala Asp Cys

				340				345					350		
His	Leu	Glu	Pro	Val	Arg	Cys	Gln	Ala	Pro	Pro	Pro	Arg	Ser	Pro	Ser
		355					360					365			
Glu	Ala	Ser	Gly	Arg	Thr	Val	Gly	Ser	Gly	Lys	Val	Tyr	Pro	Thr	Val
		370				375					380				
His	Thr	Ser	Pro	Pro	Pro	Glu	Thr	Leu	Lys	Glu	Lys	Ala	Leu	Val	Glu
385					390					395					400
Val	Ala	Ala	Ser	Ser	Gly	Pro	Pro	Thr	Leu	Thr	Ser	Leu	Asn	Ile	Pro
				405					410					415	
Pro	Gly	Pro	Tyr	Ser	Ser	Met	His	Lys	Leu	Leu	Glu	Thr	Gln	Ser	Thr
			420					425					430		
Gly	Ala	Cys	Gln	Ser	Ser	Cys	Lys	Ile	Ser	Ser	Pro	Cys	Leu	Lys	Ala
		435					440					445			
Asp	Ser	Gly	Ala	Cys	Gly	Pro	Asp	Ser	Cys	Pro	Tyr	Cys	Ala	Arg	Ala
	450					455					460				
Gly	Ala	Gly	Glu	Val	Glu	Leu	Ala	Asp	Arg	Glu	Met	Pro	Asp	Ser	Asp
465					470					475					480
Ser	Glu	Ala	Val	Tyr	Glu	Phe	Thr	Gln	Asp	Ala	Gln	His	Ser	Asp	Leu
				485					490					495	
Arg	Asp	Pro	His	Ser	Arg	Arg	Gln	Arg	Ser	Leu	Gly	Pro	Asp	Ala	Glu
			500					505					510		
Pro	Ser	Ser	Val	Leu	Ala	Phe	Trp	Arg	Leu	Ile	Cys	Asp	Thr	Phe	Arg
		515					520					525			
Lys	Ile	Val	Asp	Ser	Lys	Tyr	Phe	Gly	Arg	Gly	Ile	Met	Ile	Ala	Ile
	530					535					540				
Leu	Val	Asn	Thr	Leu	Ser	Met	Gly	Ile	Glu	Tyr	His	Glu	Gln	Pro	Glu
545					550					555					560
Glu	Leu	Thr	Asn	Ala	Leu	Glu	Ile	Ser	Asn	Ile	Val	Phe	Thr	Ser	Leu
				565					570					575	
Phe	Ala	Leu	Glu	Met	Leu	Leu	Lys	Leu	Leu	Val	Tyr	Gly	Pro	Phe	Gly
			580					585					590		
Tyr	Ile	Lys	Asn	Pro	Tyr	Asn	Ile	Phe	Asp	Gly	Val	Ile	Val	Val	Ile
		595					600					605			
Ser	Val	Trp	Glu	Ile	Val	Gly	Gln	Gln	Gly	Gly	Gly	Leu	Ser	Val	Leu
	610					615					620				
Arg	Thr	Phe	Arg	Leu	Met	Arg	Val	Leu	Lys	Leu	Val	Arg	Phe	Leu	Pro
625					630					635					640
Ala	Leu	Gln	Arg	Gln	Leu	Val	Val	Leu	Met	Lys	Thr	Met	Asp	Asn	Val
				645					650					655	
Ala	Thr	Phe	Cys	Met	Leu	Leu	Met	Leu	Phe	Ile	Phe	Ile	Phe	Ser	Ile
			660					665					670		
Leu	Gly	Met	His	Leu	Phe	Gly	Cys	Lys	Phe	Ala	Ser	Glu	Arg	Asp	Gly
		675					680					685			
Asp	Thr	Leu	Pro	Asp	Arg	Lys	Asn	Phe	Asp	Ser	Leu	Leu	Trp	Ala	Ile
	690														

Ser Leu Pro Lys Ser Thr Ser Thr Gly Leu Gly Glu Ala Leu Gly Pro
 820 825 830
 Ala Ser Arg Arg Thr Ser Ser Ser Gly Ser Ala Glu Pro Gly Ala Ala
 835 840 845
 His Glu Met Lys Ser Pro Pro Ser Ala Arg Ser Ser Pro His Ser Pro
 850 855 860
 Trp Ser Ala Ala Ser Ser Trp Thr Ser Arg Arg Ser Ser Arg Asn Ser
 865 870 875 880
 Leu Gly Arg Ala Pro Ser Leu Lys Arg Arg Ser Pro Ser Gly Glu Arg
 885 890 895
 Arg Ser Leu Leu Ser Gly Glu Gly Gln Glu Ser Gln Asp Glu Glu Glu
 900 905 910
 Ser Ser Glu Glu Glu Arg Ala Ser Pro Ala Gly Ser Asp His Arg His
 915 920 925
 Arg Gly Ser Leu Glu Arg Glu Ala Lys Ser Ser Phe Asp Leu Pro Asp
 930 935 940
 Thr Leu Gln Val Pro Gly Leu His Arg Thr Ala Ser Gly Arg Gly Ser
 945 950 955 960
 Ala Ser Glu His Gln Gly Leu Gln Trp Gln Val Gly Phe Arg Ala Pro
 965 970 975
 Gly Pro Gly Pro Ala Ala *
 980 982

<210> 1269
 <211> 708
 <212> PRT
 <213> Homo sapiens

<400> 1269
 Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
 1 5 10 15
 Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
 20 25 30
 Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
 35 40 45
 Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
 50 55 60
 Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
 65 70 75 80
 Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
 85 90 95
 Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
 100 105 110
 Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
 115 120 125
 Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
 130 135 140
 Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
 145 150 155 160
 Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
 165 170 175
 Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
 180 185 190
 Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
 195 200 205
 Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe

210	215	220
Ala Leu Val Ile Leu	Leu Asp Arg Thr Lys	Val Pro Ala Lys Asp Tyr
225	230	235
Phe Val Ala Thr Thr	Ile Val Val Val Phe	Phe Thr Val Ile Val Gln
	245	250
Gly Leu Thr Ile Lys	Pro Leu Val Lys Trp	Leu Lys Val Lys Arg Ser
	260	265
Glu His His Lys Pro	Thr Leu Asn Gln Glu	Leu His Glu His Thr Phe
	275	280
Asp His Ile Leu Ala	Ala Val Glu Asp Val	Val Gly His His Gly Tyr
	290	295
His Tyr Trp Arg Asp	Arg Trp Glu Gln Phe	Asp Lys Lys Tyr Leu Ser
305	310	315
Gln Leu Leu Met Arg	Arg Ser Ala Tyr Arg	Ile Arg Asp Gln Ile Trp
	325	330
Asp Val Tyr Tyr Arg	Leu Asn Ile Arg Asp	Ala Ile Ser Phe Val Asp
	340	345
Gln Gly Gly His Val	Leu Ser Ser Thr Gly	Leu Thr Leu Pro Ser Met
	355	360
Pro Ser Arg Asn Ser	Val Ala Glu Thr Ser	Val Thr Asn Leu Leu Arg
	370	375
Glu Ser Gly Ser Gly	Ala Cys Leu Asp Leu	Gln Val Ile Asp Thr Val
385	390	395
Arg Ser Gly Arg Asp	Arg Glu Asp Ala Val	Met His His Leu Leu Cys
	405	410
Gly Gly Leu Tyr Lys	Pro Arg Arg Arg Tyr	Lys Ala Ser Cys Ser Arg
	420	425
His Phe Ile Ser Glu	Asp Ala Gln Glu Arg	Gln Asp Lys Glu Val Phe
	435	440
Gln Gln Asn Met Lys	Arg Arg Leu Glu Ser	Phe Lys Ser Thr Lys His
	450	455
Asn Ile Cys Phe Thr	Lys Ser Lys Pro Arg	Pro Arg Lys Thr Gly Arg
465	470	475
Arg Lys Lys Asp Gly	Val Ala Asn Ala Glu	Ala Thr Asn Gly Lys His
	485	490
Arg Gly Leu Gly Phe	Gln Asp Thr Ala Ala	Val Ile Leu Thr Val Glu
	500	505
Ser Glu Glu Glu Glu	Glu Glu Glu Ser Asp	Ser Ser Glu Thr Glu Lys Glu
	515	520
Asp Asp Glu Gly Ile	Ile Phe Val Ala Arg	Ala Thr Ser Glu Val Leu
	530	535
Gln Glu Gly Lys Val	Ser Gly Ser Leu Glu	Val Cys Pro Ser Pro Arg
545	550	555
Ile Ile Pro Pro Ser	Pro Thr Cys Ala Glu	Lys Glu Leu Pro Trp Lys
	565	570
Ser Gly Gln Gly Asp	Leu Ala Val Tyr Val	Ser Ser Glu Thr Thr Lys
	580	585
Ile Val Pro Val Asp	Met Gln Thr Gly Trp	Asn Gln Ser Ile Ser Ser
	595	600
Leu Glu Ser Leu Ala	Ser Pro Pro Cys Asn	Gln Ala Pro Ile Leu Thr
	610	615
Cys Leu Pro Pro His	Pro Arg Gly Thr Glu	Glu Glu Pro Gln Val Pro Leu
625	630	635
His Leu Pro Ser Asp	Pro Arg Ser Ser Phe	Ala Phe Pro Pro Ser Leu
	645	650
Ala Lys Ala Gly Arg	Ser Arg Ser Glu Ser	Ser Ala Asp Leu Pro Gln
	660	665
Gln Gln Glu Leu Gln	Pro Leu Met Gly His	Lys Asp His Thr His Leu
	675	680
		685

Ser Pro Gly Thr Ala Thr Ser His Trp Cys Ile Gln Phe Asn Arg Gly
 690 695 700
 Ser Arg Leu *
 705 707

<210> 1270
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 1270
 Met Leu Gln Ala Ala Leu Trp Cys Gly Ile Gly Leu Tyr Leu Val Thr
 1 5 10 15
 Leu Arg Leu Gly Val Glu Val Thr Pro Glu Ser Gln His Phe Gly Arg
 20 25 30
 Pro Arg Arg Ala Asp His Leu Arg Pro Gly Gly Arg Gly Gln Ser Gly
 35 40 45
 Gln His Gly Glu Thr Pro Ser Leu Leu Glu Ile Gln Lys Ile Ser Trp
 50 55 60
 Met Trp Trp His Ile Pro Val Ile Pro Ala Thr Trp Glu Ala Glu Ala
 65 70 75 80
 Gly Glu Ser Leu Glu Arg Gly Arg Trp Arg Leu Gln *
 85 90 92

<210> 1271
 <211> 648
 <212> PRT
 <213> Homo sapiens

<400> 1271
 Met Leu Trp Val Thr Gly Pro Val Leu Ala Val Ile Leu Ile Ile Leu
 1 5 10 15
 Ile Val Ile Ala Ile Leu Leu Phe Lys Arg Lys Arg Thr His Ser Pro
 20 25 30
 Ser Ser Lys Asp Glu Gln Ser Ile Gly Leu Lys Asp Ser Leu Leu Ala
 35 40 45
 His Ser Ser Asp Pro Val Glu Met Arg Arg Leu Asn Tyr Gln Thr Pro
 50 55 60
 Gly Met Arg Asp His Pro Ile Pro Ile Thr Asp Leu Ala Asp Asn
 65 70 75 80
 Ile Glu Arg Leu Lys Ala Asn Asp Gly Leu Lys Phe Ser Gln Glu Tyr
 85 90 95
 Glu Ser Ile Asp Pro Gly Gln Gln Phe Thr Trp Glu Asn Ser Asn Leu
 100 105 110
 Glu Val Asn Lys Pro Lys Asn Arg Tyr Ala Asn Val Ile Ala Tyr Asp
 115 120 125
 His Ser Arg Val Ile Leu Thr Ser Ile Asp Gly Val Pro Gly Ser Asp
 130 135 140
 Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr Arg Lys Gln Asn Ala Tyr
 145 150 155 160
 Ile Ala Thr Gln Gly Pro Leu Pro Glu Thr Met Gly Asp Phe Trp Arg
 165 170 175
 Met Val Trp Glu Gln Arg Thr Ala Thr Val Val Met Met Thr Arg Leu

				180					185					190			
Glu	Glu	Lys	Ser	Arg	Val	Lys	Cys	Asp	Gln	Tyr	Trp	Pro	Ala	Arg	Gly		
		195					200					205					
Thr	Glu	Thr	Cys	Gly	Leu	Ile	Gln	Val	Thr	Leu	Leu	Asp	Thr	Val	Glu		
	210					215					220						
Leu	Ala	Thr	Tyr	Thr	Val	Arg	Thr	Phe	Ala	Leu	His	Lys	Ser	Gly	Ser		
225					230					235					240		
Ser	Glu	Lys	Arg	Glu	Leu	Arg	Gln	Phe	Gln	Phe	Met	Ala	Trp	Pro	Asp		
			245						250					255			
His	Gly	Val	Pro	Glu	Tyr	Pro	Thr	Pro	Ile	Leu	Ala	Phe	Leu	Arg	Arg		
		260						265					270				
Val	Lys	Ala	Cys	Asn	Pro	Leu	Asp	Ala	Gly	Pro	Met	Val	Val	His	Cys		
	275						280					285					
Ser	Ala	Gly	Val	Gly	Arg	Thr	Gly	Cys	Phe	Ile	Val	Ile	Asp	Ala	Met		
290						295					300						
Leu	Glu	Arg	Met	Lys	His	Glu	Lys	Thr	Val	Asp	Ile	Tyr	Gly	His	Val		
305					310					315					320		
Thr	Cys	Met	Arg	Ser	Gln	Arg	Asn	Tyr	Met	Val	Gln	Thr	Glu	Asp	Gln		
			325						330					335			
Tyr	Val	Phe	Ile	His	Glu	Ala	Leu	Leu	Glu	Ala	Ala	Thr	Cys	Gly	His		
		340						345					350				
Thr	Glu	Val	Pro	Ala	Arg	Asn	Leu	Tyr	Ala	His	Ile	Gln	Lys	Leu	Gly		
	355						360					365					
Gln	Val	Pro	Pro	Gly	Glu	Ser	Val	Thr	Ala	Met	Glu	Leu	Glu	Phe	Lys		
370						375					380						
Leu	Leu	Ala	Ser	Ser	Lys	Ala	His	Thr	Ser	Arg	Phe	Ile	Ser	Ala	Asn		
385					390					395					400		
Leu	Pro	Cys	Asn	Lys	Phe	Lys	Asn	Arg	Leu	Val	Asn	Ile	Met	Pro	Tyr		
			405						410					415			
Glu	Leu	Thr	Arg	Val	Cys	Leu	Gln	Pro	Ile	Arg	Gly	Val	Glu	Gly	Ser		
		420						425					430				
Asp	Tyr	Ile	Asn	Ala	Ser	Phe	Leu	Asp	Gly	Tyr	Arg	Gln	Gln	Lys	Ala		
	435						440					445					
Tyr	Ile	Ala	Thr	Gln	Gly	Pro	Leu	Ala	Glu	Ser	Thr	Glu	Asp	Phe	Trp		
450						455					460						
Arg	Met	Leu	Trp	Glu	His	Asn	Ser	Thr	Ile	Ile	Val	Met	Leu	Thr	Lys		
465					470					475					480		
Leu	Arg	Glu	Met	Gly	Arg	Glu	Lys	Cys	His	Gln	Tyr	Trp	Pro	Ala	Glu		
			485						490					495			
Arg	Ser	Ala	Arg	Tyr	Gln	Tyr	Phe	Val	Val	Asp	Pro	Met	Ala	Glu	Tyr		
		500						505					510				
Asn	Met	Pro	Gln	Tyr	Ile	Leu	Arg	Glu	Phe	Lys	Val	Thr	Asp	Ala	Arg		
	515						520					525					
Asp	Gly	Gln	Ser	Arg	Thr	Ile	Arg	Gln	Phe	Gln	Phe	Thr	Asp	Trp	Pro		
530						535					540						
Glu	Gln	Gly	Val	Pro	Lys	Thr	Gly	Glu	Gly	Phe	Ile	Asp	Phe	Ile	Gly		
545					550					555					560		
Gln	Val	His	Lys	Thr	Lys	Glu	Gln	Phe	Gly	Gln	Asp	Gly	Pro	Ile	Thr		
			565						570					575			
Val	His	Cys	Ser	Ala	Gly	Val	Gly	Arg	Thr	Gly	Val	Phe	Ile	Thr	Leu		
		580						585					590				
Ser	Ile	Val	Leu	Glu	Arg	Met	Arg	Tyr	Glu	Gly	Val	Val	Asp	Met	Phe		
	595						600					605					
Gln	Thr	Val	Lys	Thr	Leu	Arg	Thr	Gln	Arg	Pro	Ala	Met	Val	Gln	Thr		
610						615					620						
Glu	Asp	Gln	Tyr	Gln	Leu	Cys	Tyr	Arg	Ala	Ala	Leu	Glu	Tyr	Leu	Gly		
625					630					635					640		
Ser	Phe	Asp	His	Tyr	Ala	Thr	*										
			645			647											

<210> 1272
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1272
 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1 5 10 15
 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
 20 25 30
 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
 35 40 45
 Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
 50 55 60
 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
 65 70 75 80
 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
 85 90 95
 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro *

<210> 1273
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1273
 Met Phe Phe Val Pro Ile Leu Leu Cys Leu Leu Leu Leu Ile Tyr Asn
 1 5 10 15
 Ile Ile Cys Phe Asn Met Glu His Pro Thr Gly Ala Gly Leu Arg Cys
 20 25 30
 Ser Leu Leu Ala Ala Pro Lys Glu Arg Gln His Arg His His Phe Val
 35 40 45
 Phe His Ile Asp Thr Asn His *

<210> 1274
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 1274
 Met Asp Leu Ser Leu Leu Trp Val Leu Leu Pro Leu Val Thr Met Ala
 1 5 10 15
 Trp Gly Gln Tyr Gly Asp Tyr Gly Tyr Pro Tyr Gln Gln Tyr His Asp
 20 25 30
 Tyr Ser Asp Asp Gly Trp Val Asn Leu Asn Arg Gln Gly Phe Ser Tyr
 35 40 45
 Gln Cys Pro Gln Gly Gln Val Ile Val Ala Val Arg Ser Ile Phe Ser

50		55		60													
Lys	Lys	Glu	Gly	Ser	Asp	Arg	Gln	Trp	Asn	Tyr	Ala	Cys	Met	Pro	Thr		
65					70					75					80		
Pro	Gln	Ser	Leu	Gly	Glu	Pro	Thr	Glu	Cys	Trp	Trp	Glu	Glu	Ile	Asn		
				85					90					95			
Arg	Ala	Gly	Met	Glu	Trp	Tyr	Gln	Thr	Cys	Ser	Asn	Asn	Gly	Leu	Val		
			100					105					110				
Ala	Gly	Phe	Gln	Ser	Arg	Tyr	Phe	Glu	Ser	Val	Leu	Asp	Arg	Glu	Trp		
		115					120					125					
Gln	Phe	Tyr	Cys	Cys	Arg	Tyr	Ser	Lys	Arg	Cys	Pro	Tyr	Ser	Cys	Trp		
130						135					140						
Leu	Thr	Thr	Glu	Tyr	Pro	Gly	His	Tyr	Gly	Glu	Glu	Met	Asp	Met	Ile		
145					150					155					160		
Ser	Tyr	Asn	Tyr	Asp	Tyr	Tyr	Ile	Arg	Gly	Ala	Thr	Thr	His	Phe	Leu		
				165					170					175			
Cys	Ser	Gly	Lys	Gly	Ser	Pro	Ser	Gly	Ser	Ser	*						
			180					185		187							

<210> 1275
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1275																	
Met	Val	Ala	Leu	Thr	Ile	Gln	Thr	Trp	His	Trp	Leu	Met	Thr	Val	Ala		
1				5					10					15			
Glu	Leu	Leu	Ser	Leu	Ala	Cys	Tyr	Ile	Ala	Ser	Leu	Val	Phe	Leu	His		
			20					25					30				
Glu	Phe	Ile	Asp	Val	Tyr	Phe	Ile	Ala	Thr	Leu	Ser	Phe	Leu	Trp	Lys		
		35					40					45					
Val	Ser	Val	Ile	Thr	Leu	Val	Ser	Cys	Leu	Pro	Leu	Tyr	Val	Leu	Lys		
	50					55					60						
Tyr	Leu	Arg	Arg	Arg	Phe	Ser	Pro	Pro	Ser	Tyr	Ser	Lys	Leu	Thr	Ser		
65					70					75					80		
*																	

<210> 1276
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1276																	
Met	Leu	Asp	Leu	Val	Ala	Leu	Leu	Tyr	Gln	Ala	Val	Leu	Leu	Pro	Ala		
1				5					10					15			
Ile	Leu	Leu	Leu	Pro	Leu	Cys	Gln	Leu	Glu	Met	Phe	Leu	Met	Leu	Gln		
			20					25					30				
Leu	Asn	Arg	Gln	Ser	Leu	Lys	Lys	Lys	Tyr	Leu	Ile	Leu	*				
		35					40					45					

<210> 1277

<211> 431
 <212> PRT
 <213> Homo sapiens

<400> 1277
 Met Ala Leu Leu Val Pro Leu Ala Leu Leu Val Ile Gln Ala His Leu
 1 5 10 15
 Val Leu Ser Val Gln Leu Glu Arg Val Val Thr Glu Glu Lys Val Ala
 20 25 30
 Leu Leu Ala Leu Leu Val Leu Pro Val Leu Leu Val Pro Glu Val Leu
 35 40 45
 Leu Val Leu Lys Ala His Val Val Thr Lys Val Lys Gln Val Asn Val
 50 55 60
 Glu Leu Leu Ala Ser Lys Asp Ile Glu Asp Ser Leu Val Ile Gln Val
 65 70 75 80
 Pro Gln Val Leu Gln Ala Leu Leu Val Ser Arg Val Gln Ser Ala Val
 85 90 95
 Gln Asp Leu Gln Ala Pro Glu Asp Leu Leu Asp Pro Val Asp Leu Leu
 100 105 110
 Ala Lys Met Glu Pro Val Asp Ile Gln Val Pro Leu Asp His Gln Gly
 115 120 125
 Leu Glu Val Thr Glu Val Lys Glu Asp Leu Arg Ala Pro Gln Ala Thr
 130 135 140
 Gln Gly Asn Gln Ala Leu Leu Asp Leu Leu Val Pro Leu Val Leu Ala
 145 150 155 160
 Val Val Val Leu Glu Pro Leu Pro Leu Leu Gly Leu Glu Val Lys Lys
 165 170 175
 Leu Ala Gly Phe Ala Pro Tyr Tyr Gly Asp Glu Pro Met Asp Phe Lys
 180 185 190
 Ile Asn Thr Asp Glu Ile Met Thr Ser Leu Lys Ser Val Asn Gly Gln
 195 200 205
 Ile Glu Ser Leu Ile Ser Pro Asp Gly Ser Arg Lys Asn Pro Ala Arg
 210 215 220
 Asn Cys Arg Asp Leu Lys Phe Cys His Pro Glu Leu Lys Ser Gly Glu
 225 230 235 240
 Tyr Trp Val Asp Pro Asn Gln Gly Cys Lys Leu Asp Ala Ile Lys Val
 245 250 255
 Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Ile Ser Ala Asn Pro Leu
 260 265 270
 Asn Val Pro Arg Lys His Trp Trp Thr Asp Ser Ser Ala Glu Lys Lys
 275 280 285
 His Val Trp Phe Gly Glu Ser Met Asp Gly Gly Phe Gln Phe Ser Tyr
 290 295 300
 Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Gln Leu Ala Phe
 305 310 315 320
 Leu Arg Leu Leu Ser Ser Arg Ala Ser Gln Asn Ile Thr Tyr His Cys
 325 330 335
 Lys Asn Ser Ile Ala Tyr Met Asp Gln Ala Ser Gly Asn Val Lys Lys
 340 345 350
 Ala Leu Lys Leu Met Gly Ser Asn Glu Gly Glu Phe Lys Ala Glu Gly
 355 360 365
 Asn Ser Lys Phe Thr Tyr Thr Val Leu Glu Asp Gly Cys Thr Lys His
 370 375 380
 Thr Gly Glu Trp Ser Lys Thr Val Phe Glu Tyr Arg Thr Arg Lys Ala
 385 390 395 400
 Val Arg Leu Pro Ile Val Asp Ile Ala Pro Tyr Asp Ile Gly Gly Pro
 405 410 415
 Asp Gln Glu Phe Gly Val Asp Val Gly Pro Val Cys Phe Leu *

420

425

430

<210> 1278
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1278
 Met Leu Leu Tyr Val Phe Lys Phe Leu Gly Leu Phe Gln Phe Phe His
 1 5 10 15
 Ser Phe Cys Thr Ala Tyr Gly Pro Pro Gly Gly Cys Gly Asp Ser Gly
 20 25 30
 Glu Glu Thr Ser Leu Phe Phe Glu Gln Leu Asp Pro Ala Phe Trp Leu
 35 40 45
 Ala Asn Cys Ser *
 50 52

<210> 1279
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1279
 Met Leu Gly Ser Ile Cys Asn Val Met Leu Leu Met Leu Ala Ala Ser
 1 5 10 15
 Ile Pro Glu Ile Cys Thr Phe Gly Pro Thr Lys Leu Ala Ala Asn Cys
 20 25 30
 Asn Trp Met Pro Ser Arg Val Ala Arg Leu Pro Ser Val Arg Asp Thr
 35 40 45
 Val Arg Ser Pro Pro Ala Asp Thr Glu Ala Gly Arg Ile Ala Trp Pro
 50 55 60
 Thr Ser Pro Gly Cys Ser Arg Phe *
 65 70 72

<210> 1280
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1280
 Met Leu Leu Leu Leu Glu Arg Met Ala Leu Cys Pro Val Leu Asp Val
 1 5 10 15
 His Thr His Leu Gly Cys Ile Ile Cys Val Phe Asp Val Ala Leu Ser
 20 25 30
 Arg Glu Leu Ala Leu Leu Cys Arg Lys Ser Asn Trp Trp Val Ile Asn
 35 40 45
 Trp Leu *
 50

<210> 1281
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 1281
 Met Lys Ser Gly Ser Gly Gly Gly Ser Pro Thr Ser Leu Trp Gly Leu
 1 5 10 15
 Leu Phe Leu Ser Ala Ala Leu Ser Leu Trp Pro Thr Ser Gly Glu Ile
 20 25 30
 Cys Gly Pro Gly Ile Asp Ile Arg Asn Asp Tyr Gln Gln Leu Lys Arg
 35 40 45
 Leu Glu Asn Cys Thr Val Ile Glu Gly Tyr Leu His Ile Leu Leu Ile
 50 55 60
 Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu Thr Val
 65 70 75 80
 Ile Thr Glu Tyr Leu Leu Phe Arg Val Ala Gly Leu Glu Ser Leu
 85 90 95
 Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys Leu Phe
 100 105 110
 Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys Asp Ile
 115 120 125
 Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Gly His Gln Asp *
 130 135 140 143

<210> 1282
 <211> 267
 <212> PRT
 <213> Homo sapiens

<400> 1282
 Met Gly Pro Pro Ser Ala Cys Pro His Arg Glu Cys Ile Pro Trp Gln
 1 5 10 15
 Gly Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Ala Pro Thr
 20 25 30
 Thr Ala Trp Leu Phe Ile Ala Ser Ala Pro Phe Glu Val Ala Glu Gly
 35 40 45
 Glu Asn Val His Leu Ser Val Val Tyr Leu Pro Glu Asn Leu Tyr Ser
 50 55 60
 Tyr Gly Trp Tyr Lys Gly Lys Thr Val Glu Pro Asn Gln Leu Ile Ala
 65 70 75 80
 Ala Tyr Val Ile Asp Asp Thr His Val Arg Thr Pro Gly Pro Ala Tyr
 85 90 95
 Ser Gly Arg Glu Thr Ile Ser Pro Ser Gly Asp Leu His Phe Gln Asn
 100 105 110
 Val Thr Leu Glu Asp Thr Gly Tyr Tyr Asn Leu Gln Val Thr Tyr Arg
 115 120 125
 Asn Ser Gln Ile Glu Gln Ala Ser His His Leu Arg Val Tyr Gln Val
 130 135 140
 Ser Gly Leu Thr Pro Pro Ser Lys Pro Ala Ala Pro Gln Ser Pro Arg
 145 150 155 160
 Arg Ala Pro Gly Val Leu Thr Cys His Thr Asn Asn Thr Gly Thr Ser
 165 170 175
 Phe Gln Trp Ile Phe Asn Asn Gln Arg Leu Gln Val Thr Lys Arg Met

			180					185				190					
Lys	Leu	Ser	Trp	Phe	Asn	His	Met	Leu	Thr	Ile	Asp	Pro	Ile	Arg	Gln		
		195					200					205					
Glu	Asp	Ala	Gly	Glu	Tyr	Gln	Cys	Glu	Val	Ser	Asn	Pro	Val	Ser	Ser		
	210					215					220						
Asn	Arg	Ser	Asp	Pro	Leu	Lys	Leu	Thr	Val	Lys	Ser	Asp	Asp	Asn	Thr		
225					230					235					240		
Leu	Gly	Ile	Leu	Ile	Gly	Val	Leu	Val	Gly	Ser	Leu	Leu	Val	Ala	Ala		
				245					250					255			
Leu	Val	Cys	Phe	Leu	Leu	Leu	Arg	Lys	Thr	Gly							
			260					265		267							

<210> 1283
 <211> 262
 <212> PRT
 <213> Homo sapiens

<400> 1283

Met	Leu	Val	Leu	Leu	Val	Leu	Arg	Val	Ser	Leu	Ala	Ala	Leu	Val	Lys		
1				5					10					15			
Met	Glu	Leu	Leu	Val	Arg	Trp	Ala	Pro	Val	Ala	Cys	Leu	Val	Arg	Glu		
			20					25					30				
Val	Ala	Leu	Glu	Pro	Leu	Ala	Leu	Leu	Val	Leu	Val	Glu	Met	Met	Val		
		35					40					45					
Leu	Leu	Val	Leu	Pro	Gly	Pro	Leu	Val	Pro	Pro	Ala	Pro	Leu	Val	Leu		
	50					55					60						
Leu	Ala	Ser	Leu	Val	Leu	Leu	Val	Leu	Arg	Val	Lys	Leu	Val	Pro	Lys		
65					70					75				80			
Gly	Pro	Glu	Ala	Leu	Lys	Val	Pro	Arg	Val	Cys	Val	Val	Ser	Leu	Ala		
				85					90					95			
Pro	Leu	Ala	Leu	Leu	Val	Leu	Leu	Ala	Leu	Leu	Glu	Thr	Leu	Val	Leu		
			100					105					110				
Arg	Glu	Ser	Leu	Val	Leu	Lys	Val	Pro	Met	Val	Leu	Leu	Val	Leu	Leu		
			115				120						125				
Val	Leu	Leu	Ala	Ser	Leu	Val	Pro	Glu	Ala	Pro	Leu	Asp	Pro	Arg	Ala		
	130					135					140						
Pro	Ala	Ala	Leu	Leu	Val	Pro	Arg	Val	Thr	Ala	Val	Asn	Leu	Val	Leu		
145					150					155				160			
Leu	Ala	Ala	Lys	Glu	Thr	Leu	Val	Leu	Arg	Glu	Ser	Leu	Ala	Leu	Leu		
				165					170					175			
Val	Phe	Lys	Asp	Pro	Leu	Ala	Leu	Leu	Glu	Arg	Lys	Glu	Ser	Glu	Glu		
			180					185					190				
Leu	Glu	Val	Asn	Pro	Asp	Pro	Leu	Ala	Cys	Pro	Asp	Pro	Leu	Ala	Ser		
			195				200					205					
Val	Val	Asp	Leu	Val	Ala	Val	Val	Ser	Leu	Ala	Gln	Met	Val	Leu	Leu		
	210					215					220						
Val	Pro	Arg	Val	Pro	Leu	Val	Asn	Val	Val	Leu	Leu	Ala	Leu	Leu	Ala		
225					230					235				240			
Pro	Lys	Asp	Leu	Leu	Val	Lys	Leu	Val	Val	Pro	Val	Lys	Leu	Val	Cys		
				245					250					255			
Leu	Val	Pro	Arg	Val	*												
			260	261													

<210> 1284

<211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1284
 Met Val Ile Leu Pro Leu Leu Leu Leu Ile Thr Thr Pro Pro Met Thr
 1 5 10 15
 Phe Leu Ala Phe Leu Leu Thr Leu Ile Leu Ser Cys Lys Asn Cys Ser
 20 25 30
 Lys Leu Ala Ala Ser Met Ile Arg Leu Leu Trp Gly Gly Cys Asn Gln
 35 40 45
 Glu *
 49

<210> 1285
 <211> 323
 <212> PRT
 <213> Homo sapiens

<400> 1285
 Met Leu Val Met Ala Pro Arg Thr Val Leu Leu Leu Leu Ser Ala Ala
 1 5 10 15
 Leu Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe
 20 25 30
 Tyr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser
 35 40 45
 Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
 50 55 60
 Ala Ser Pro Arg Glu Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly
 65 70 75 80
 Pro Glu Tyr Trp Asp Arg Asn Thr Gln Ile Tyr Lys Ala Gln Ala Gln
 85 90 95
 Thr Asp Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr Tyr Asn Gln Ser
 100 105 110
 Glu Ala Gly Ser His Thr Leu Gln Ser Met Tyr Gly Cys Asp Val Gly
 115 120 125
 Pro Asp Gly Arg Leu Leu Arg Gly His Asp Gln Tyr Ala Tyr Asp Gly
 130 135 140
 Lys Asp Tyr Ile Ala Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Ala
 145 150 155 160
 Asp Thr Ala Ala Gln Ile Thr Gln Arg Lys Trp Glu Ala Ala Arg Glu
 165 170 175
 Ala Glu Gln Arg Arg Ala Tyr Leu Glu Gly Glu Cys Val Glu Trp Leu
 180 185 190
 Arg Arg Tyr Leu Glu Asn Gly Lys Asp Lys Leu Glu Arg Ala Asp Pro
 195 200 205
 Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr
 210 215 220
 Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr
 225 230 235 240
 Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu
 245 250 255
 Thr Arg Pro Ala Gly Asp Arg Thr Phe Gln Lys Val Gly Gln Leu Trp
 260 265 270
 Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His

	275						280					285							
Val	Gly	Ala	Ala	Glu	Ala	Pro	His	Pro	Ser	Glu	Met	Gly	Ser	Gly	Leu				
	290						295				300								
Pro	Ser	Ser	Thr	Val	Pro	His	Arg	Trp	Ala	Leu	Val	Leu	Gly	Leu	Gly				
305					310					315					320				
Cys	Pro	*																	
322																			

<210> 1286
 <211> 306
 <212> PRT
 <213> Homo sapiens

<400> 1286

Met	Leu	Leu	Phe	Leu	Leu	Ser	Ala	Leu	Val	Leu	Leu	Thr	Gln	Pro	Leu				
1				5					10					15					
Gly	Tyr	Leu	Glu	Ala	Glu	Met	Lys	Thr	Tyr	Ser	His	Arg	Thr	Met	Pro				
		20					25						30						
Ser	Ala	Cys	Thr	Leu	Val	Met	Cys	Ser	Ser	Val	Glu	Ser	Gly	Leu	Pro				
		35					40					45							
Gly	Arg	Asp	Gly	Arg	Asp	Gly	Arg	Glu	Gly	Pro	Arg	Gly	Glu	Lys	Gly				
	50					55					60								
Asp	Pro	Gly	Leu	Pro	Gly	Ala	Ala	Gly	Gln	Ala	Gly	Met	Pro	Gly	Gln				
	65				70				75						80				
Ala	Gly	Pro	Val	Gly	Pro	Lys	Gly	Asp	Asn	Gly	Ser	Val	Gly	Glu	Pro				
			85					90					95						
Gly	Pro	Lys	Gly	Asp	Thr	Gly	Pro	Ser	Gly	Pro	Pro	Gly	Pro	Pro	Gly				
		100					105						110						
Val	Pro	Gly	Pro	Ala	Gly	Arg	Glu	Gly	Pro	Leu	Gly	Lys	Gln	Gly	Asn				
	115						120						125						
Ile	Gly	Pro	Gln	Gly	Lys	Pro	Gly	Pro	Lys	Gly	Glu	Ala	Gly	Pro	Lys				
	130					135					140								
Gly	Glu	Val	Gly	Ala	Pro	Gly	Met	Gln	Gly	Ser	Ala	Gly	Ala	Arg	Gly				
145					150					155					160				
Leu	Ala	Gly	Pro	Lys	Gly	Glu	Arg	Gly	Val	Pro	Gly	Glu	Arg	Gly	Val				
			165						170					175					
Pro	Gly	Asn	Thr	Gly	Ala	Ala	Gly	Ser	Ala	Gly	Ala	Met	Gly	Pro	Gln				
		180						185					190						
Gly	Ser	Pro	Gly	Ala	Arg	Gly	Pro	Pro	Gly	Leu	Lys	Gly	Asp	Lys	Gly				
	195						200					205							
Ile	Pro	Gly	Asp	Lys	Gly	Ala	Lys	Gly	Glu	Ser	Gly	Leu	Pro	Asp	Val				
	210					215					220								
Ala	Ser	Leu	Arg	Gln	Gln	Val	Glu	Ala	Leu	Gln	Gly	Gln	Val	Gln	His				
225					230					235					240				
Leu	Gln	Ala	Ala	Phe	Ser	Gln	Tyr	Lys	Lys	Val	Glu	Leu	Phe	Pro	Asn				
			245						250					255					
Gly	Gln	Ser	Val	Gly	Glu	Lys	Ile	Phe	Lys	Thr	Ala	Gly	Phe	Val	Lys				
		260						265					270						
Pro	Phe	Thr	Glu	Ala	Gln	Leu	Leu	Cys	Thr	Gln	Ala	Gly	Gly	Gln	Leu				
	275						280					285							
Ala	Ser	Pro	Arg	Ser	Ala	Ala	Glu	Asn	Ala	Pro	Leu	Ala	Thr	Ala	Gly				
	290					295					300								
Pro	*																		
305																			

<210> 1287
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 1287
 Met Gly Arg Trp Ala Leu Asp Val Ala Phe Leu Trp Lys Ala Val Leu
 1 5 10 15
 Thr Leu Gly Leu Val Leu Leu Tyr Tyr Cys Phe Ser Ile Gly Ile Thr
 20 25 30
 Phe Tyr Asn Lys Trp Leu Thr Lys Ser Phe His Phe Pro Leu Phe Met
 35 40 45
 Thr Met Leu His Leu Ala Val Ile Phe Leu Phe Ser Ala Leu Ser Arg
 50 55 60
 Ala Leu Val Gln Cys Ser Ser His Arg Ala Arg Val Val Leu Ser Trp
 65 70 75 80
 Ala Asp Tyr Leu Arg Arg Val Ala Pro Thr Ala Leu Ala Thr Ala Leu
 85 90 95
 Asp Val Gly Leu Ser Asn Trp Ser Phe Leu Tyr Val Thr Val Ser Leu
 100 105 110
 Tyr Thr Met Thr Lys Ser Ser Ala Val Leu Phe Ile Leu Ile Phe Ser
 115 120 125
 Leu Ile Phe Lys Leu Glu Glu Leu Arg Ala Ala Leu Val Leu Val Val
 130 135 140
 Leu Leu Ile Ala Gly Gly Leu Phe Met Phe Thr Tyr Lys Ser Thr Gln
 145 150 155 160
 Phe Asn Val Glu Gly Phe Ala Leu Val Leu Gly Ala Ser Phe Ile Gly
 165 170 175
 Gly Ile Arg Trp Thr Leu Thr Gln Met Leu Leu Gln Lys Ala Glu Leu
 180 185 190
 Gly Leu Gln Asn Pro Ile Asp Thr Met Phe His Leu Gln Pro Leu Met
 195 200 205
 Phe Leu Gly Leu Phe Pro Leu Phe Ala Val Phe Glu Gly Leu His Leu
 210 215 220
 Ser Thr Ser Glu Lys Ile Phe Arg Phe Gln Gly His Arg Ala Ala Pro
 225 230 235 240
 Ala Gly Thr Trp Gly Ala Ser Ser Leu Ala Gly Phe Ser Pro Leu Val
 245 250 255
 Trp Ala Ser Leu Ser Ser Ser Trp Ser Pro Glu Pro Pro Ala Ser Leu
 260 265 270
 Ser Pro Leu Pro Ala Phe Leu Arg Lys Ser Ala Leu Cys Cys Trp Gln
 275 280 285
 Leu Ile Cys Trp Ala Ile Arg Ser Ala Ser *
 290 295 298

<210> 1288
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 1288
 Met Glu Ser Ala Leu Pro Ala Ala Gly Phe Leu Tyr Trp Val Gly Ala
 1 5 10 15
 Gly Thr Val Ala Tyr Leu Ala Leu Arg Ile Ser Tyr Ser Leu Phe Thr

```

      20      25      30
Ala Leu Arg Val Trp Gly Val Gly Asn Glu Ala Gly Val Gly Pro Gly
      35      40      45
Leu Gly Glu Trp Ala Val Val Thr Gly Ser Thr Asp Gly Ile Gly Lys
      50      55      60
Ser Tyr Ala Glu Glu Leu Ala Lys His Gly Met Lys Val Val Leu Ile
      65      70      75      80
Ser Arg Ser Lys Asp Lys Leu Asp Gln Val Ser Ser Glu Ile Lys Glu
      85      90      95
Lys Phe Lys Val Glu Thr Arg Thr Ile Ala Val Asp Phe Ala Ser Glu
      100      105      110
Asp Ile Tyr Asp Lys Ile Lys Thr Gly Leu Ala Gly Leu Glu Ile Gly
      115      120      125
Ile Leu Val Asn Asn Val Gly Met Ser Tyr Glu Tyr Pro Glu Tyr Phe
      130      135      140
Leu Asp Val Pro Asp Leu Asp Asn Val Ile Lys Lys Asn Asp Lys Tyr
      145      150      155      160
*
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<210> 1289
<211> 46
<212> PRT
<213> Homo sapiens
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<400> 1289
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
  1      5      10      15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
      20      25      30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val *
      35      40      45
```

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<210> 1290
<211> 453
<212> PRT
<213> Homo sapiens
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<400> 1290
Met Thr Ser Lys Phe Ile Leu Val Ser Phe Ile Leu Ala Ala Leu Ser
  1      5      10      15
Leu Ser Thr Thr Phe Ser Leu Gln Pro Asp Gln Gln Lys Val Leu Leu
      20      25      30
Val Ser Phe Asp Gly Phe Arg Trp Asp Tyr Leu Tyr Lys Val Pro Thr
      35      40      45
Pro His Phe His Tyr Ile Met Lys Tyr Gly Val His Val Lys Gln Val
      50      55      60
Thr Asn Val Phe Ile Thr Lys Thr Tyr Pro Asn His Tyr Thr Leu Val
      65      70      75      80
Thr Gly Leu Phe Ala Glu Asn His Gly Ile Val Ala Asn Asp Met Phe
      85      90      95
Asp Pro Ile Arg Asn Lys Ser Phe Ser Leu Asp His Met Asn Ile Tyr
      100      105      110
```

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Asp Ser Lys Phe Trp Glu Glu Ala Thr Pro Ile Trp Ile Thr Asn Gln
    115                      120                      125
Arg Ala Gly His Thr Ser Gly Ala Ala Met Trp Pro Gly Thr Asp Val
    130                      135                      140
Lys Ile His Lys Arg Phe Pro Thr His Tyr Met Pro Tyr Asn Glu Ser
    145                      150                      155                      160
Val Ser Phe Glu Asp Arg Val Ala Lys Ile Ile Glu Trp Phe Thr Ser
    165                      170                      175
Lys Glu Pro Ile Asn Leu Gly Leu Leu Tyr Trp Glu Asp Pro Asp Asp
    180                      185                      190
Met Gly His His Leu Gly Pro Asp Ser Pro Leu Met Gly Pro Val Ile
    195                      200                      205
Ser Asp Ile Asp Lys Lys Leu Gly Tyr Leu Ile Gln Met Leu Lys Lys
    210                      215                      220
Ala Lys Leu Trp Asn Thr Leu Asn Leu Ile Ile Thr Ser Asp His Gly
    225                      230                      235                      240
Met Thr Gln Cys Ser Glu Glu Arg Leu Ile Glu Leu Asp Gln Tyr Leu
    245                      250                      255
Asp Lys Asp His Tyr Thr Leu Ile Asp Gln Ser Pro Val Ala Ala Ile
    260                      265                      270
Leu Pro Lys Glu Gly Lys Phe Asp Glu Val Tyr Glu Ala Leu Thr His
    275                      280                      285
Ala His Pro Asn Leu Thr Val Tyr Lys Lys Glu Asp Val Pro Glu Arg
    290                      295                      300
Trp His Tyr Lys Tyr Asn Ser Arg Ile Gln Pro Ile Ile Ala Val Ala
    305                      310                      315                      320
Asp Glu Gly Trp His Ile Leu Gln Asn Lys Ser Asp Asp Phe Leu Leu
    325                      330                      335
Gly Asn His Gly Tyr His Asn Ala Leu Ala Asp Met His Pro Ile Phe
    340                      345                      350
Leu Ala His Gly Pro Ala Phe Arg Lys Asn Phe Ser Lys Glu Ala Met
    355                      360                      365
Asn Ser Thr Asp Leu Tyr Pro Leu Leu Cys His Leu Leu Asn Ile Thr
    370                      375                      380
Ala Met Pro His Asn Gly Ser Phe Trp Asn Val Gln Asp Leu Leu Asn
    385                      390                      395                      400
Ser Ala Met Pro Arg Val Val Pro Tyr Thr Gln Ser Thr Ile Leu Leu
    405                      410                      415
Pro Gly Ser Val Lys Pro Ala Glu Tyr Asp Gln Glu Gly Ser Tyr Pro
    420                      425                      430
Tyr Phe Ile Gly Val Ser Leu Gly Ser Ile Ile Val Ile Val Phe Phe
    435                      440                      445
Cys Asn Phe His *
    450                      452

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<210> 1291

<211> 78

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(78)

<223> Xaa = any amino acid or nothing

<400> 1291

Met Leu Ser Val Thr Ala Phe Ile Leu Ala Glu Thr Val Leu Ala Ser

1				5						10					15	
Gln	Glu	Val	Gln	Gly	Gly	Val	Gln	Val	Arg	Val	Tyr	Leu	Met	Asn	Ala	
			20						25				30			
Val	Pro	Asp	Gly	Leu	Gln	Gly	Gly	Ser	Pro	Val	Gly	Gly	Leu	Gly	Leu	
		35					40					45				
Leu	Leu	Ala	Pro	Asp	Asn	Ser	Gly	His	Arg	Arg	Ser	Ser	Cys	Arg	Ile	
	50					55					60					
Pro	Ala	Ala	Arg	Val	Tyr	Xaa	Xaa	Xaa	Xaa	Pro	Arg	Pro	Pro			
65					70					75				78		

<210> 1292
 <211> 416
 <212> PRT
 <213> Homo sapiens

<400> 1292

Met	Val	Leu	Trp	Ile	Leu	Trp	Arg	Pro	Phe	Gly	Phe	Ser	Gly	Arg	Phe	
1				5					10					15		
Leu	Lys	Leu	Glu	Ser	His	Ser	Ile	Thr	Glu	Ser	Lys	Ser	Leu	Ile	Pro	
			20					25					30			
Val	Ala	Trp	Thr	Ser	Leu	Thr	Gln	Met	Leu	Leu	Glu	Ala	Pro	Gly	Ile	
	35						40					45				
Phe	Leu	Leu	Gly	Gln	Arg	Lys	Arg	Phe	Ser	Thr	Met	Pro	Glu	Thr	Glu	
	50					55					60					
Thr	His	Glu	Arg	Glu	Thr	Glu	Leu	Phe	Ser	Pro	Pro	Ser	Asp	Val	Arg	
65				70						75					80	
Gly	Met	Thr	Lys	Leu	Asp	Arg	Thr	Ala	Phe	Lys	Lys	Thr	Val	Asn	Ile	
			85					90						95		
Pro	Val	Leu	Lys	Val	Arg	Lys	Glu	Ile	Val	Ser	Lys	Leu	Met	Arg	Ser	
		100					105						110			
Leu	Lys	Arg	Ala	Ala	Leu	Gln	Arg	Pro	Gly	Ile	Arg	Arg	Val	Ile	Glu	
	115					120						125				
Asp	Pro	Glu	Asp	Lys	Glu	Ser	Arg	Leu	Ile	Met	Leu	Asp	Pro	Tyr	Lys	
	130					135					140					
Ile	Phe	Thr	His	Asp	Ser	Phe	Glu	Lys	Ala	Glu	Leu	Ser	Val	Leu	Glu	
145				150					155					160		
Gln	Leu	Asn	Val	Ser	Pro	Gln	Ile	Ser	Lys	Tyr	Asn	Leu	Glu	Leu	Thr	
			165					170						175		
Tyr	Glu	His	Phe	Lys	Ser	Glu	Glu	Ile	Leu	Arg	Ala	Val	Leu	Pro	Glu	
		180					185						190			
Gly	Gln	Asp	Val	Thr	Ser	Gly	Phe	Ser	Arg	Ile	Gly	His	Ile	Ala	His	
	195					200						205				
Leu	Asn	Leu	Arg	Asp	His	Gln	Leu	Pro	Phe	Lys	His	Leu	Ile	Gly	Gln	
	210					215					220					
Val	Met	Ile	Asp	Lys	Asn	Pro	Gly	Ile	Thr	Ser	Ala	Val	Asn	Lys	Ile	
225				230						235				240		
Asn	Asn	Ile	Asp	Asn	Met	Tyr	Arg	Asn	Phe	Gln	Met	Glu	Val	Leu	Ser	
			245					250						255		
Gly	Glu	Gln	Asn	Met	Met	Thr	Lys	Val	Arg	Glu	Asn	Asn	Tyr	Thr	Tyr	
		260					265						270			
Glu	Phe	Asp	Phe	Ser	Lys	Val	Tyr	Trp	Asn	Pro	Arg	Leu	Ser	Thr	Glu	
	275						280					285				
His	Ser	Arg	Ile	Thr	Glu	Leu	Leu	Lys	Pro	Gly	Asp	Val	Leu	Phe	Asp	
	290					295				300						
Val	Phe	Ala	Gly	Val	Gly	Pro	Phe	Ala	Ile	Pro	Val	Ala	Lys	Lys	Asn	
305					310					315					320	

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<210> 1293
<211> 113
<212> PRT
<213> Homo sapiens
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<210> 1294
<211> 57
<212> PRT
<213> Homo sapiens
```

744

<210> 1295
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1295
 Met Phe Leu Ser Leu Cys Leu Leu Ser Ala Ala Leu Thr Lys Ile Ser
 1 5 10 15
 Ser Lys Ile Leu Tyr Lys Pro Gly Thr Lys Val Thr Ser Leu Gln Phe
 20 25 30
 Ile Pro Thr Ser Ser Ser Tyr Thr His Met Asn Cys Val Asn Gly Ser
 35 40 45
 Thr Asp Pro Ile Tyr Val Ser Gly Arg Arg Arg Met Cys Ser Ser Cys
 50 55 60
 Val Phe Ile *
 65 67

<210> 1296
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1296
 Met Trp Ser Ala His Pro Leu Ala Val Leu Ser Leu Lys Leu Thr Leu
 1 5 10 15
 Phe Ser Leu Thr Ser Asp Trp Leu Ser Ser Lys Asp Met Ala Ile Ser
 20 25 30
 Leu Ala Phe Lys Ile Ser Gln Ile Leu Cys Ser Val Leu Ser Ala Pro
 35 40 45
 Gly Lys Arg Leu Ile Ser Val Leu Trp Asn Thr Ser Ser Leu Lys Arg
 50 55 60
 Ser *
 65

<210> 1297
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1297
 Met Leu His Ser Gln Leu Leu Ala Val Ser Phe Arg Leu Ile Val Thr
 1 5 10 15
 Leu Pro Leu Ser Ile Gln Asp Trp Asp Asp Ala Glu Asn Met Lys Gly
 20 25 30
 Leu Gln Tyr Ile Phe Asn Thr Leu Trp Ser Val Ser Ser Pro Val Ile
 35 40 45
 Thr Ser Ile Leu Ser Ser Lys His *
 50 55 56

<210> 1298

<211> 235
 <212> PRT
 <213> Homo sapiens

<400> 1298
 Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser
 1 5 10 15
 Glu Leu Arg Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys
 20 25 30
 Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe
 35 40 45
 Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro
 50 55 60
 Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val
 65 70 75 80
 Gln Val Gly Arg Ile Ile Leu Glu Asp Tyr His Asp His Gly Leu Leu
 85 90 95
 Arg Val Arg Met Val Asn Leu Gln Val Glu Asp Ser Gly Leu Tyr Gln
 100 105 110
 Cys Val Ile Tyr Gln Pro Pro Lys Glu Pro His Met Leu Phe Asp Arg
 115 120 125
 Ile Arg Leu Val Val Thr Lys Gly Phe Ser Gly Thr Pro Gly Ser Asn
 130 135 140
 Glu Asn Ser Thr Gln Asn Val Tyr Lys Ile Pro Pro Thr Thr Thr Lys
 145 150 155 160
 Ala Leu Cys Pro Leu Tyr Thr Thr Pro Arg Thr Val Thr Gln Ala Pro
 165 170 175
 Pro Lys Ser Thr Ala Asp Val Ser Thr Pro Asp Ser Glu Ile Asn Leu
 180 185 190
 Thr Asn Val Thr Asp Ile Ile Arg Val Pro Val Phe Asn Ile Val Ile
 195 200 205
 Leu Leu Ala Gly Gly Phe Leu Ser Lys Ser Leu Val Phe Ser Val Leu
 210 215 220
 Phe Ala Val Thr Leu Arg Ser Phe Val Pro *
 225 230 234

<210> 1299
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1299
 Met Arg Trp Lys Val Gln Val Asn Ser Leu Met Val Leu Pro Ser Leu
 1 5 10 15
 Thr Val Cys Tyr Ser Thr His Leu Ser Thr Gly Cys Arg His Ile Lys
 20 25 30
 Val Asn Val Gln Val Leu Glu Asn Ile Gln Arg Ile Leu Asn Val Gln
 35 40 45
 Asn Ser Glu Lys Gln Ile Tyr Ala Glu Cys Val Val Gly Ala Phe *
 50 55 60 63

<210> 1300
 <211> 80

<212> PRT
 <213> Homo sapiens

<400> 1300
 Met Ala Ser Arg Ser Asn Tyr Leu Thr Glu Thr Leu Thr Pro Phe Pro
 1 5 10 15
 Ala Leu Leu Ser Leu Phe Met Leu Tyr Leu Ser His Thr Gly Phe Asp
 20 25 30
 Asn Ile Ile Pro Thr Phe Pro Thr Lys Pro Ala Tyr Thr Leu His Arg
 35 40 45
 Leu Leu Pro His Cys Pro Asp Ile His Ile Ala Tyr Ser Leu Ile Ser
 50 55 60
 Ser His Leu Phe Ala Gln Gly Ala Ser Leu Ser Thr Arg Thr His *
 65 70 75 79

<210> 1301
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1301
 Met Arg Phe Arg Ala Glu Pro Lys Ser Arg Pro Leu Pro Ala Leu Cys
 1 5 10 15
 His Val Leu Ile Ala Cys Ile Val Phe Arg Trp Ala Phe Ala Gln Pro
 20 25 30
 Leu Pro Ser Ser Arg Ser Tyr Arg Ser Ser Gly Glu Phe Pro Arg Ser
 35 40 45
 Pro Ser Phe Lys Lys Thr Lys Thr Pro Ser Trp Gly Glu Arg Arg Val
 50 55 60
 Leu Leu Tyr Ser Arg Met Leu Arg Ala Asn Leu Arg Met Trp Arg Glu
 65 70 75 80
 Tyr Trp Ser Gln Lys Ser Ile
 85 87

<210> 1302
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1302
 Met Asp His Cys Gly Ala Leu Phe Leu Cys Leu Cys Leu Leu Thr Leu
 1 5 10 15
 Gln Asn Ala Thr Thr Glu Thr Trp Glu Glu Leu Leu Ser Tyr Met Glu
 20 25 30
 Asn Met Gln Val Ser Arg Gly Arg Ser Ser Val Phe Ser Ser Arg Gln
 35 40 45
 Leu His Gln Leu Glu Gln Met Leu Leu Asn Thr Ser Phe Pro Gly Tyr
 50 55 60
 Asn Leu Thr Leu Gln Thr Pro Thr Ile Gln Ser Leu Ala Phe Lys Leu
 65 70 75 80
 Ser Cys Asp Phe Ser Gly Leu Ser Leu Thr Ser Ala Thr Leu Lys Arg
 85 90 95

Val	Pro	Gln	Ala	Gly	Gly	Gln	His	Ala	Arg	Gly	Gln	His	Ala	Met	Gln
			100					105					110		
Phe	Pro	Ala	Glu	Leu	Thr	Arg	Asp	Ala	Cys	Lys	Thr	Arg	Pro	Arg	Glu
		115					120					125			
Leu	Arg	Leu	Ile	Cys	Ile	Tyr	Phe	Ser	Asn	Thr	His	Phe	Phe	Lys	
	130					135					140			143	

<210> 1303
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1303															
Met	Ile	Leu	Leu	Met	Ser	Ala	Ala	Ile	Phe	Cys	Ser	Ala	Glu	Val	Phe
1				5					10					15	
Thr	Arg	Gly	Ser	Phe	Phe	Ser	Asp	Met	Leu	Thr	Leu	Asp	Arg	Val	Lys
			20				25						30		
Ala	Lys	Gly	Leu	Gln	Gly	Glu	Gly	Ala	Ala	Ser	Thr	Cys	Ala	Leu	Ala
		35				40						45			
Ala	Asp	Ser	Gln	Gly	Ser	Gly	Ala	Ser	Gly	Thr	Lys				
	50					55					60				

<210> 1304
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1304															
Met	Lys	Met	Met	Phe	Ile	Ile	Thr	Asn	Trp	Leu	Asn	Tyr	Tyr	Phe	Leu
1				5					10					15	
Leu	Phe	Ser	Pro	Ser	Asn	Pro	Gln	Ile	Gln	Ser	Ile	Leu	His	Glu	Val
			20				25						30		
Ala	Pro	Leu	Trp	Phe	Arg	Thr	Leu	Tyr	Thr	Leu	Leu	Arg	Gly	Cys	Ser
		35				40						45			
Thr	Trp	Lys	Gly	Leu	Ser	Ser	*								
	50					55									

<210> 1305
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 1305															
Met	Asn	Ile	Ile	Phe	Ile	Tyr	Leu	Ala	Thr	Ser	Leu	Ala	Phe	Leu	Ile
1				5					10					15	
Ile	Asn	Leu	Ser	Gln	Leu	Leu	Phe	Thr	Glu	Tyr	Leu	His	Phe	Arg	Cys
			20				25						30		
Cys	Ser	Lys	Cys	Ser	Thr	Cys	Ile	Asn	Leu	Leu	Ser	His	His	Glu	Trp
		35				40						45			
Glu	Leu	Leu	Pro	Ser	Ser	Tyr	Arg	Arg	Gly	Ser	Arg	Ser	Pro	*	

50

55

60

62

<210> 1306
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 1306
 Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met
 1 5 10 15
 Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser
 20 25 30
 Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Pro
 35 40 45
 Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg
 50 55 60
 Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His
 65 70 75 80
 Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Pro Asp Phe
 85 90 95
 Tyr Pro Pro Ala Tyr Glu Glu Ser Leu Glu Val Glu Lys Gln Ser Cys
 100 105 110
 Pro Ala Glu Arg Glu Ala Pro Arg His Ser Ser Thr Ser Ile Tyr Arg
 115 120 125
 Asp Gly Pro Gly Ile Pro Gly Trp Lys *
 130 135 137

<210> 1307
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1307
 Met Met Ala Ile Lys Pro Thr Ile Leu Val Thr Gln Gly Leu Ile Leu
 1 5 10 15
 Cys Trp Lys Cys His Lys Met Ile Cys Ser Tyr Phe Asn Leu Gln Leu
 20 25 30
 Glu Arg His Phe Leu Glu Thr Ile Gln Ser Asp Ser Phe Met Glu Lys
 35 40 45
 Leu Thr Leu Thr Asp Leu Thr Ile Tyr Arg Ile His Val Ala Thr His
 50 55 60 64

<210> 1308
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1308

```

Met  Pro  Cys  Ser  Gly  Ser  Ser  Val  Gln  Thr  Phe  Arg  Pro  Leu  Leu  Ile
 1          5          10          15
Phe  His  Asn  Val  Thr  Phe  Phe  Ile  Leu  Pro  Val  Lys  Cys  Phe  Asn  Ala
          20          25          30
Leu  Ile  Asn  Val  Leu  Glu  Arg  Pro  Phe  Trp  Gln  Leu  Leu  Gly  Glu  Ile
          35          40          45
Gly  Glu  Glu  Tyr  Arg  Gly  Ser  Glu  Asp  Trp  Leu  Gly  Gly  Ser  Phe  Arg
 50          55          60          64
*
```

```

<210> 1309
<211> 75
<212> PRT
<213> Homo sapiens
```

```

<400> 1309
Met  Arg  Ile  Trp  His  Arg  Trp  Leu  Leu  Val  Arg  Ile  Leu  Phe  Pro  Ala
 1          5          10          15
Pro  Gly  Leu  Gln  Thr  Ala  Thr  Phe  Ser  Val  Cys  Phe  His  Val  Ala  Glu
          20          25          30
Ser  Glu  Leu  Trp  His  Leu  Leu  Cys  Phe  Phe  Phe  Phe  Leu  Ala  Leu  Leu
          35          40          45
Pro  Pro  Arg  Trp  Lys  Ala  Arg  Gly  Pro  Ile  Trp  Val  His  Gly  Thr  Leu
 50          55          60
Gly  Phe  Arg  Val  Gly  Arg  Asn  Phe  Leu  Ala  *
65          70          74
```

```

<210> 1310
<211> 46
<212> PRT
<213> Homo sapiens
```

```

<400> 1310
Met  Lys  Leu  Gly  Asp  Val  Phe  Val  Lys  Leu  Leu  Val  Ser  Leu  Ala  Gly
 1          5          10          15
Glu  Ile  Leu  Leu  Ala  Pro  Leu  Val  Ser  Ala  Ser  Gly  Met  Gly  Pro  Ala
          20          25          30
Gly  Val  Glu  Ala  Leu  Glu  Glu  Val  Ser  Ala  Leu  Ser  Val  *
          35          40          45
```

```

<210> 1311
<211> 105
<212> PRT
<213> Homo sapiens
```

```

<400> 1311
Met  Tyr  Trp  Val  Thr  Val  Ile  Thr  Leu  Ile  Tyr  Gly  Tyr  Tyr  Ala  Trp
 1          5          10          15
Val  Gly  Phe  Trp  Pro  Glu  Ser  Ile  Pro  Tyr  Gln  Asn  Leu  Gly  Pro  Leu
```

			20					25					30				
Gly	Pro	Leu	Thr	Gln	Tyr	Leu	Met	Asp	His	His	His	Thr	Leu	Leu	Cys		
		35					40					45					
Asn	Gly	Tyr	Trp	Leu	Ala	Trp	Leu	Ile	His	Val	Gly	Glu	Ser	Leu	His		
	50					55					60						
Ala	Ile	Leu	Leu	Gly	Glu	Arg	Lys	Gly	Ile	Thr	Ser	Gly	Arg	Ser	Gln		
65					70					75					80		
Leu	Leu	Trp	Leu	Leu	Gln	Thr	Leu	Phe	Phe	Gly	Ile	Thr	Thr	Leu	Thr		
			85					90						95			
Ile	Phe	Asp	Ala	Tyr	Lys	Arg	Lys	Arg									
			100					105									

<210> 1312
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1312

Met	Lys	Gly	Lys	Trp	Cys	Cys	Ser	Leu	Leu	Cys	Gln	Ser	Pro	Gln	Val		
1				5					10					15			
Gln	Thr	Ala	Leu	Val	Cys	Pro	Leu	Ser	Leu	Ser	Leu	Gly	Pro	Pro	Gly		
		20					25					30					
Pro	Gln	Cys	Pro	Leu	Leu	Trp	Leu	Gly	Gln	Glu	Asp	Leu	Pro	Asp	Ile		
	35					40					45						
Ala	Arg	Cys	Ile	Thr	Asp	Asp	Cys	Ser	Gln	Leu	Pro	Gln	Ala	Pro	Ala		
50					55					60							
Ser	Leu	Ala	Ser	Cys	Phe	Phe	Pro	Gln	Ser	Cys	Leu	Leu	Ile	Ser	Ile		
65				70					75					80			
His	Leu	Ser	Met	Gly	Tyr	Ser	Trp	Thr	Leu	Gly	Leu	Gly	Val	Gly	Ile		
			85				90						95				
Arg	Leu	Leu	Pro	Thr	Lys	Gly	Val	Lys	Val	Thr	His	Phe	Pro	Tyr	His		
			100				105						110				

Ala *

113

<210> 1313
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1313

Met	Ser	Ser	Ser	Gly	Gln	Leu	Gly	His	Pro	Pro	Arg	Ala	Pro	His	Ser		
1				5				10						15			
Trp	Arg	Arg	Trp	Cys	Trp	Trp	Leu	Phe	Met	Leu	Ala	Thr	Ser	Leu	Ser		
		20					25					30					
Arg	Arg	Arg	Arg	Pro	Ser	Thr	Pro	Leu	Ile	His	Tyr	Arg	Val	Phe	Thr		
	35					40					45						
Val	Asn	His	Lys	Met	Asp	Pro	Val	Thr	Arg	Thr	Phe	Thr	Leu	Asp	Ile		
50					55					60							
Lys	Val	Val	Phe	Pro	Asp	Glu	Gly	Trp	Gly	Val	Val	Val	Asp	Pro	Gly		
65				70					75						80		
His	Trp	Gly	Tyr	Met	Val	Cys	*										
				85		87											

<210> 1314
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1314
 Met Gly Gly Arg Leu Trp Ile Phe Leu Gln Leu Cys Gln Ser Leu Gly
 1 5 10 15
 Leu Ser Thr Val Val Ser Ser Arg Pro Val Ala Cys Leu Glu Ser Val
 20 25 30
 Pro Gly Met Cys Met Ser Val Cys Met Pro Leu Asn Tyr Arg Gly Ser
 35 40 45
 Asn Phe Ser Glu Thr Asp Val Trp Met Asp Leu Ser Arg Ala His Leu
 50 55 60 64
 *

<210> 1315
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1315
 Met Leu Ile Pro Ile Pro Val His Ile Phe Pro Leu Ser Ser Leu Leu
 1 5 10 15
 Gly Asp Gly Thr Met Arg Leu Leu Pro Asp Ile Ser Ser Asp Trp Leu
 20 25 30
 Cys Leu Asn Gln Glu Phe Ala Pro Val Gln Ser Ala Ile Ala Met Glu
 35 40 45
 Trp Gly Ser Cys Val Gly Asp Gln Asp Asp Thr His Trp Ile Cys Leu
 50 55 60
 Arg Gln Thr Ser Gly Val *
 65 70

<210> 1316
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1316
 Met Ala Thr Pro Ser Ser Pro Trp Trp Ala His Ser Gly Leu Pro Pro
 1 5 10 15
 Leu Phe Ser Ser Gly Leu Ser Trp Arg Leu Val Pro Leu Phe Trp Cys
 20 25 30
 Leu Gln Ser Leu Thr Gly Phe Leu Gly Pro Cys Leu Pro Arg Thr Thr
 35 40 45
 Arg Ala Phe Leu Ser Leu Gln Ser Trp Asp Leu Pro Gly Thr Arg Pro
 50 55 60
 Gly Ser Gln Ala Gln Gly Phe Thr Ala Cys Asn Ala Ala Asn Thr Pro

```

      65              70              75              80
Gly Leu Ala Ala Leu Pro Gly Ser Gly Ala Phe Ser Val Ile Pro Val
      85              90              95
Ser Leu Leu Leu Pro Val Pro Glu Gly Leu Gly Arg Thr Tyr Leu Tyr
      100              105              110
Ser *
113

```

```

<210> 1317
<211> 91
<212> PRT
<213> Homo sapiens

```

```

      <400> 1317
Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
  1              5              10              15
Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr
      20              25              30
Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp
      35              40              45
Gln Ser Cys Met Asn Cys Val Ile Leu Leu Ser Ala Phe Phe Phe Leu
      50              55              60
Phe Asp Lys Met Asp Ile Lys Asn Ser Cys Cys Ala Lys Val Ser Ser
      65              70              75              80
Leu Leu Gln Glu Glu Asn Gln Phe Phe Phe *
      85              90

```

```

<210> 1318
<211> 65
<212> PRT
<213> Homo sapiens

```

```

      <400> 1318
Met Leu Pro Leu Ile Ser Ser Ile Lys Ile Leu Lys Leu Leu Tyr Tyr
  1              5              10              15
Phe Ser Val Trp Gly Trp Gly Phe Phe Phe Phe Glu Thr Glu Phe Arg
      20              25              30
Ser Cys Cys Pro Gly Trp Ser Ala Met Val Arg Ser Gln Leu Thr Ala
      35              40              45
Thr Ser Thr Ser Arg Val Gln Ala Ile Leu Leu Pro Gln Pro Pro Glu
      50              55              60              64
*

```

```

<210> 1319
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1319

```

```

Met Val Thr Leu Leu Ile Ala Lys Gln Phe Trp Ile Phe Thr Val Asp
 1              5              10              15
Leu His Leu Ser Asp Tyr Val Leu Glu Leu Ser Arg Tyr Leu Ile Asn
              20              25              30
Ala Cys Phe Tyr Ser Pro Cys Ser Gln Pro Ile Glu Lys *
              35              40              45

```

```

<210> 1320
<211> 47
<212> PRT
<213> Homo sapiens

```

```

<400> 1320
Met Pro Ala Leu Leu Val Leu Lys Val Val Lys Val Leu Leu Pro Met
 1              5              10              15
Val Leu Thr Gly Leu Gly Val Glu Glu Leu Lys Glu Met Val Leu Leu
              20              25              30
Leu Pro Val Pro Cys Ala Ala Ile Ile Gly Ser Phe Lys Leu *
              35              40              45 46

```

```

<210> 1321
<211> 55
<212> PRT
<213> Homo sapiens

```

```

<400> 1321
Met Ile Cys Phe Cys Leu Pro Val Cys Pro Lys Thr His Leu Ala His
 1              5              10              15
Pro Met Leu Ala Thr Leu Ala Phe Val Ser Leu Leu Glu Tyr Ala Lys
              20              25              30
His Cys Leu Arg Asp Phe Ile Leu Val Ser Phe Leu Leu Gly Met Leu
              35              40              45
Phe Leu Arg Tyr Gln His *
              50              54

```

```

<210> 1322
<211> 301
<212> PRT
<213> Homo sapiens

```

```

<400> 1322
Met Lys Ile Ala Phe Gly Asn Leu Trp Met Glu Ile Leu Tyr Leu Lys
 1              5              10              15
Pro Pro Trp Thr Leu Leu His Leu Leu Gln Cys Phe Lys Lys His Trp
              20              25              30
Leu Ala Val Phe Gly Leu Val Met Glu Lys Asn Leu Leu Thr Ile
              35              40              45
Glu Ser Leu Tyr Lys Asn Leu Arg Lys Ala Asn Lys Ala Val Asp Phe
              50              55              60
Thr Thr Val Lys Phe Leu Leu Gln Asp Ser Arg Ser Leu Leu His Ala

```


65					70					75					80
Phe	Ser	Thr	Arg	Ser	Asn	Tyr	Asp	Gly	Ile	Leu	Pro	Gln	Thr	Phe	Ala
				85					90					95	
Gln	Val	Asn	Asn	Leu	Leu	Gln	Thr	Phe	Ala	Glu	Val	Lys	Thr	Lys	Leu
			100					105					110		
Lys	Pro	Asn	Ser	Ser	Glu	Asn	Thr	Val	Thr	Lys	Lys	Gln	Glu	Gly	Thr
		115					120					125			
Ser	Leu	Lys	Asn	Ser	His	Asn	Gln	Glu	Ile	Thr	Val	Phe	Ser	Ser	Ser
	130					135					140				
His	Leu	Pro	Gln	Pro	Ser	Arg	His	Gln	Glu	Ile	Trp	Ser	Ile	Leu	Glu
145					150					155					160
Ser	Val	Trp	Ile	Thr	Ile	Tyr	Gln	Asn	Ser	Thr	Asp	Val	Phe	Gln	Arg
			165						170					175	
Leu	Gly	Ser	Asn	Ser	Ala	Leu	Thr	Thr	Ser	Asn	Ile	Ala	Ser	Phe	Glu
			180					185					190		
Glu	Ala	Phe	Ile	Cys	Leu	Gln	Lys	Leu	Met	Ala	Ala	Val	Arg	Asp	Ile
	195						200					205			
Leu	Glu	Gly	Ile	Gln	Arg	Ile	Leu	Ala	Pro	Asn	Ser	Asn	Tyr	Gln	Asp
	210					215					220				
Val	Glu	Thr	Leu	Tyr	Asn	Phe	Leu	Ile	Lys	Tyr	Glu	Val	Asn	Lys	Asn
225					230					235					240
Val	Lys	Phe	Thr	Ala	Gln	Glu	Ile	Tyr	Asp	Cys	Val	Ser	Gln	Thr	Glu
				245					250					255	
Tyr	Arg	Glu	Lys	Leu	Thr	Ile	Gly	Cys	Arg	Gln	Leu	Val	Glu	Met	Glu
		260					265					270			
Tyr	Thr	Met	Gln	Gln	Cys	Asn	Ala	Ser	Val	Tyr	Met	Glu	Ala	Lys	Asn
	275					280						285			
Arg	Gly	Trp	Cys	Glu	Asp	Met	Leu	Asn	Tyr	Arg	Ile	*			
	290					295					300				

<210> 1323
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1323															
Met	Thr	Glu	His	Leu	Ala	Gln	Gln	Ser	Glu	Phe	Ala	Ala	Thr	Leu	Leu
1				5					10					15	
Leu	Leu	Trp	Ala	Pro	Leu	Lys	Thr	Gly	Arg	Leu	Thr	Asn	Ser	Phe	Val
			20					25				30			
Asn	Gly	Pro	Gly	Gln	His	Gly	Lys	Met	Cys	Cys	Ile	Leu	Pro	Pro	Lys
	35					40					45				
Thr	Pro	Val	Ser	Thr	Lys	Asn	Ala	Lys	Ile	Gly	Arg	Ala	Trp	Trp	Cys
	50				55					60					
Thr	Ser	Val	Ile	Pro	Ala	Thr	Trp	Glu	Ala	Asp	Thr	Gly	Glu	Ser	Leu
65					70				75					80	
Glu	Pro	Gly	Arg	*											
			84												

<210> 1324
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1324

```

Met Leu His His Ser Gln Leu Ile Phe Val Phe Leu Val Gln Thr Gly
 1          5          10          15
Phe His His Val Ala Leu Ser Gly Phe Lys Leu Leu Ala Ser Ser Asn
          20          25          30
Leu Pro Thr Leu Asp Pro Lys Val Leu Gly Leu Gln Val *
          35          40          45

```

<210> 1325

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1325

```

Met Gly Leu Ser Lys Ala Phe Leu Ile Thr Arg Thr Val Phe Leu Ile
 1          5          10          15
Ser Ser Leu Ser Phe Tyr Ser Phe Leu Gly Phe Pro Ser Leu Cys Phe
          20          25          30
Thr Gly Ser Cys Met Leu Ser Thr Leu Phe Ile Arg Ala Leu Ser Ile
          35          40          45
Leu Val Ile Ile Val Leu Asn Ser Arg Ser Asp Lys Ser Asn Thr Pro
          50          55          60
Ala Ile Ser Glu Ser Gly Ser Asp Ala Cys Ser Phe Ser Ser Asn Phe
          65          70          75          80
Val Phe Cys Leu Leu Val *
          85 86

```

<210> 1326

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1326

```

Met Ser Leu Phe Leu Phe Phe Leu Met Phe Gln Val Leu Ser Glu Val
 1          5          10          15
Ser Trp Gly Gly Val Gly Ser Val Ser Asn Gln Gly Leu Glu His His
          20          25          30
Glu Ile Val Thr Pro Asp Leu Gln Ser Leu Ala Gly Gly Trp Thr Gly
          35          40          45
Gly Arg Glu Arg Gly Phe Leu Phe Thr Phe Asn Ile Phe Leu Gln Lys
          50          55          60
Lys Gln Thr Ile *
          65          68

```

<210> 1327

<211> 103

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(103)

<223> Xaa = any amino acid or nothing

<400> 1327

```

Met Val Gly Phe Gly Thr Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
 1          5          10          15
Val Leu Val Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
          20          25          30
Trp Ser Ile Ser Ser Arg His Val Leu Leu Glu Glu Glu Val Ala Glu
          35          40          45
Leu Gln Gly Arg Val Gln Arg Ala Glu Val Ala Leu Trp Arg Val Gly
          50          55          60
Gly Arg Asn Cys Asp Leu Leu Leu Val Val Gly Thr Arg Ser Arg Arg
 65          70          75          80
Ile Glu Glu Arg Gly Ala Asp Tyr Ser Arg Leu Ser Arg Arg Leu Gln
          85          90          95
Xaa Lys Glu Gly Leu Val Asn
          100          103

```

<210> 1328

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1328

```

Met Arg Ala Arg Pro Ala Cys Thr Ala Thr Phe Pro Ser Phe His Leu
 1          5          10          15
Ala Leu Asp Ser Ser Tyr Leu Pro Cys Cys Lys Gly Lys Ala Thr Phe
          20          25          30
Ile Pro Lys Ser Arg Ile Tyr Leu Gln Glu Ala Lys Gly Ser Gly Glu
          35          40          45
Pro Leu Gly *
          50  51

```

<210> 1329

<211> 204

<212> PRT

<213> Homo sapiens

<400> 1329

```

Met Cys Thr Arg Asn Leu Ala Leu Leu Phe Ala Pro Ser Val Phe Gln
 1          5          10          15
Thr Asp Gly Arg Gly Glu His Glu Val Arg Val Leu Gln Glu Leu Ile
          20          25          30
Asp Gly Tyr Ile Ser Val Phe Asp Ile Asp Ser Asp Gln Val Ala Gln
          35          40          45
Ile Asp Leu Glu Val Ser Leu Ile Thr Thr Trp Lys Asp Val Gln Leu
          50          55          60
Ser Gln Ala Gly Asp Leu Ile Met Glu Val Tyr Ile Glu Gln Gln Leu
          65          70          75          80
Pro Asp Asn Cys Val Thr Leu Lys Val Ser Pro Thr Leu Thr Ala Glu
          85          90          95

```

Glu Leu Thr Asn Gln Val Leu Glu Met Arg Gly Thr Ala Ala Gly Met
 100 105 110
 Asp Leu Trp Val Thr Phe Glu Ile Arg Glu His Gly Glu Leu Glu Arg
 115 120 125
 Pro Leu His Pro Lys Glu Lys Val Leu Glu Gln Ala Leu Gln Trp Cys
 130 135 140
 Gln Leu Pro Glu Pro Cys Ser Ala Ser Leu Leu Leu Lys Lys Val Pro
 145 150 155 160
 Leu Ala Gln Ala Gly Cys Leu Phe Thr Gly Ile Arg Arg Glu Ser Pro
 165 170 175
 Arg Val Gly Leu Phe Ala Val Phe Val Arg Ser His Leu Ala Cys Trp
 180 185 190
 Gly Ser Arg Phe Gln Glu Arg Phe Phe Leu Val Ala
 195 200 204

<210> 1330
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 1330
 Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
 1 5 10 15
 Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala Gln His
 20 25 30
 Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
 35 40 45
 Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
 50 55 60
 Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
 65 70 75 80
 Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
 85 90 95
 Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
 100 105 110
 Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
 115 120 125
 Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
 130 135 140
 Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Ser
 145 150 155 160
 His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg Arg Glu
 165 170 175
 Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg Leu His
 180 185 190
 Thr Ala Ala Leu Pro Ala *
 195 198

<210> 1331
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1331
 Met Ala Arg Pro Ser Ala Phe Pro Ile Gly Val Cys Leu Thr Leu Pro
 1 5 10 15
 Met Ala Trp Ile Ser Pro Gly Leu Ala Val Pro Ser Cys Pro Gln Tyr
 20 25 30
 Ile Leu Gln Ala Gln Gly Cys Ile Leu Asp Met Lys Thr Arg Gly Ser
 35 40 45
 His Gly Glu Ser Ala Val Pro Gly Ala His Gly Ser Arg Pro Phe His
 50 55 60
 Pro Leu Ala Glu Pro Asn Pro Pro Arg Gln Lys Leu Thr Pro Cys Thr
 65 70 75 80
 *

<210> 1332
 <211> 73
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(73)
 <223> Xaa = any amino acid or nothing

<400> 1332
 Met Thr Ile Ile Leu Gln Ile Glu Thr Val Ile Phe Leu Leu Tyr Leu
 1 5 10 15
 Ala Pro Asp Thr Val Arg Pro Leu Thr Ile Ile Thr Gly Met Ala Gly
 20 25 30
 Ile Val Lys Gln Gln Ile Asp Ser His Ile Thr Asp Pro Asp Gln Gln
 35 40 45
 Asn Asn Gly Leu Ser Leu Ser Gly Pro Pro Pro Ala Pro Asp Pro Leu
 50 55 60
 Asp Xaa Leu Val Pro Thr Leu Trp Gly
 65 70 73

<210> 1333
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1333
 Met Leu Val Tyr Ile Leu Trp Asn Met Tyr Phe Asn Val Cys Ile Val
 1 5 10 15
 Pro Gly Val Ile Lys Ser Lys Thr Gly Thr Gln Asp Leu Ser Gly Leu
 20 25 30
 Trp Pro Leu Gly Thr Phe Pro Leu Ile Thr Phe Leu Pro Thr Trp Leu
 35 40 45
 Ser Tyr Gly *
 50 51

<210> 1334

<211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1334
 Met Ile Leu Phe Gln Leu Pro Ser Asn Val Phe Val Leu Leu Met Phe
 1 5 10 15
 Leu Phe Leu Phe Glu Phe Phe Leu Thr Leu Val Pro Met Trp Ala Phe
 20 25 30
 Pro Gly Asp Lys Thr Phe Val Ser Pro Ala Ser Ser Leu Ser Phe Leu
 35 40 45
 Asp Leu Ser Phe Leu Leu Phe Cys Asn Ser Val Ser Ile Gly Lys Gln
 50 55 60 64

*

<210> 1335
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1335
 Met Leu His Pro Glu Thr Ser Pro Gly Arg Gly His Leu Leu Ala Val
 1 5 10 15
 Leu Leu Ala Leu Leu Gly Thr Ala Trp Ala Glu Val Trp Pro Pro Gln
 20 25 30
 Leu Gln Glu Gln Ala Pro Met Ala Gly Ala Leu Asn Arg Lys Glu Ser
 35 40 45
 Phe Leu Leu Leu Ser Leu His Asn Arg Leu Arg Ser Trp Val Gln Pro
 50 55 60
 Pro Ala Ala Asp Met Arg Arg Leu Asp Trp Ser Asp Ser Leu Ala Gln
 65 70 75 80
 Leu Ala Gln Ala Arg Ala Ala Leu Cys Gly Ile Pro Thr Pro Ser Leu
 85 90 95
 Ala Ser Gly Leu Trp Arg Thr Leu Gln Val Gly Trp Asn Met Gln Leu
 100 105 110 112

<210> 1336
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1336
 Met Thr Gly Asn Leu Cys Phe Phe Ser Ile Lys Gly Tyr Leu Leu Thr
 1 5 10 15
 Ser Glu Ile Leu Met Ile Tyr Leu Thr Leu Glu Phe Cys Ile Leu Arg
 20 25 30
 Gly Lys His Leu Asn Val Ser Phe Lys Ala Gly Asp Thr Phe Ile Leu
 35 40 45
 Tyr Leu Gly Ser Leu Gly Phe Glu Glu Glu Gly Gly Pro Glu Ile Leu

```

      50              55              60
Lys Asp Cys Met Gly Gly Leu Ser Ser Pro Pro Leu Trp Lys Ala Glu
 65              70              75              80
Ala Gly Cys Ile Ile Trp Gly Leu Gly Val Trp Asp His Pro Trp Ala
      85              90              95
Thr Thr Arg His Pro Leu Leu Cys *
      100              104

```

<210> 1337
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

      <400> 1337
Met Tyr Val Leu Ser Ser Ala His Leu Cys Phe Leu Cys Leu Gln Cys
 1              5              10              15
Ser Ser Leu Glu Val Tyr Leu Ile Ser Ser Leu Thr Ser Phe Arg Ser
      20              25              30
Val Leu Asn Cys Tyr Pro Pro Glu Arg Ser Ser Leu Thr Ile Gln Tyr
      35              40              45
Gln Ile Leu Leu Leu Leu Leu Gln *
      50              55 56

```

<210> 1338
 <211> 59
 <212> PRT
 <213> Homo sapiens

```

      <400> 1338
Met Arg Ile Ile Ser Leu Thr Leu Met Leu Leu Glu Leu Phe Asp Ser
 1              5              10              15
Glu Asp Pro Arg Gln Arg Glu Tyr Leu Lys Asn Ile Leu His Arg Leu
      20              25              30
Tyr Gly Arg Met Leu Gly Leu Arg Pro Tyr Ile His Lys Gln Ser Lys
      35              40              45
His Ile Phe Leu Arg Met Ile Tyr Glu Phe *
      50              55 58

```

<210> 1339
 <211> 50
 <212> PRT
 <213> Homo sapiens

```

      <400> 1339
Met Ile Lys Leu Ala Ile Trp Ser Ile Ile Ile Gly Leu Arg Leu Thr
 1              5              10              15
Ile Leu Phe Cys Ile Glu Thr Arg Glu Ser Asp Ile Cys Lys Ile Leu
      20              25              30
Gln Tyr Thr Glu Ser Thr Ile Phe Trp Arg Phe Phe Pro Val Tyr Arg
      35              40              45

```

Tyr *
49

<210> 1340
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1340
Met Pro Leu Ala Cys Thr Gly Leu Asn Thr Gln Arg Phe Ser Tyr Leu
1 5 10 15
Arg Asp Leu Phe Leu Pro Trp Gly Leu Cys Ile Leu Tyr Ser Ile Leu
20 25 30
Ser Ala Ile Phe Pro Asp Leu Ser Ser Ala Lys Leu Pro Ser Leu
35 40 45
His Ile Ala Phe Phe Thr Leu Phe Lys Val Thr Lys Gly Thr Ser Pro
50 55 60
Lys Ala Thr Asp Val Pro Val Ala Cys Phe Ile Asn His Asn Arg Thr
65 70 75 80
*

<210> 1341
<211> 60
<212> PRT
<213> Homo sapiens

<400> 1341
Met Phe Glu Ile His Arg Ala His Gly Val Phe Leu Leu Leu Ser Ile
1 5 10 15
Gln Leu Thr Thr Ser Leu Lys Arg Lys Ser Gly Glu Gly Asp Arg Glu
20 25 30
Ser Pro Ala Ser Trp Phe Ser Pro Phe Ser Gln Met Phe Phe Leu Ile
35 40 45
Asn Thr Ile Leu Leu Pro Phe Lys Ile Pro Ile *
50 55 59

<210> 1342
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1342
Met Leu Ser Leu Phe Ile Phe Leu Arg Phe Leu Pro Leu Gly Phe Cys
1 5 10 15
Trp Lys Glu Leu His Pro Glu Ala Glu Gln Ser Glu Lys Val Asp Phe
20 25 30
Arg Lys Pro Trp Tyr Leu Thr Gly His Ala Ala Ser Leu Gly Ala Asp
35 40 45 48
*

<210> 1343
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1343
 Met Arg Leu Ala Val Ser Cys Ile Thr Ser Phe Leu Met Leu Ser Leu
 1 5 10 15
 Leu Leu Phe Met Ala His Arg Leu Arg Gln Arg Arg Arg Glu Arg Ile
 20 25 30
 Glu Ser Leu Ile Gly Ala Asn Leu His His Phe Asn Leu Gly Arg Arg
 35 40 45
 Ile Pro Gly Phe Asp Tyr Gly Pro Asp Gly Phe Gly Thr Gly Leu Thr
 50 55 60
 Pro Leu Ala Phe Phe *
 65 69

<210> 1344
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1344
 Met Phe Leu Ser Leu Ser Leu Thr Leu Cys Leu Cys Phe Ser Phe Phe
 1 5 10 15
 Cys Leu Tyr Leu Ser Leu Ala Leu Tyr Leu Gly Ser Phe Phe Cys Leu
 20 25 30
 Pro Phe His Val Ser Val Phe Leu Cys Leu Phe Pro Ser Val Leu Phe
 35 40 45
 Leu Ser Val Ala Leu Gly Ser Pro Glu Asn His Ile Ser Trp Arg Lys
 50 55 60
 Val Gly Glu Glu Leu Lys Leu Ala Ser His Arg Asn Phe Cys Ser Leu
 65 70 75 80
 Met Gln Lys Met Arg Ser Asn Lys Pro Ser Pro Ser Arg Pro Arg Gly
 85 90 95
 Trp Ala *
 98

<210> 1345
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1345
 Met Lys Val Leu Trp Ala Gly Val Leu Gly Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30

Cys	Gln	Gln	Thr	Glu	Trp	Lys	Ser	Gly	Gln	Arg	Trp	Glu	Leu	Glu	Leu
		35					40					45			
Gly	Arg	Phe	Trp	Asp	Tyr	Leu	Arg	Trp	Glu	Gln	Thr	Leu	Ser	Glu	Gln
	50					55					60				
Val	Gln	Glu	Glu	Leu	Val	Ser	Ser	Gln	Val	Thr	Gln	Glu	Leu	Lys	Ala
	65				70					75					80
Leu	Met	Asp	Glu	Thr	Met	Lys	Glu	Met	Lys	Ala	Tyr	Lys	Ser	Asp	Leu
				85					90					95	
Glu	Glu	Gln	Leu	Thr	Pro	Val	Ala	Gly	Arg	Arg	Trp	His	Gly	Cys	Thr
			100					105					110		112

<210> 1346

<211> 360

<212> PRT

<213> Homo sapiens

<400> 1346

Met	Leu	Phe	Val	Pro	Val	Thr	Leu	Cys	Met	Ile	Val	Val	Val	Ala	Thr
1				5					10					15	
Ile	Lys	Ser	Val	Arg	Phe	Tyr	Thr	Glu	Lys	Asn	Gly	Gln	Leu	Ile	Tyr
		20						25					30		
Thr	Pro	Phe	Thr	Glu	Asp	Thr	Pro	Ser	Val	Gly	Gln	Arg	Leu	Leu	Asn
		35					40					45			
Ser	Val	Leu	Asn	Thr	Leu	Ile	Met	Ile	Ser	Val	Ile	Val	Val	Met	Thr
	50					55					60				
Ile	Phe	Leu	Val	Val	Leu	Tyr	Lys	Tyr	Arg	Cys	Tyr	Lys	Phe	Ile	His
	65				70				75						80
Gly	Trp	Leu	Ile	Met	Ser	Ser	Leu	Met	Leu	Leu	Phe	Leu	Phe	Thr	Tyr
				85				90						95	
Ile	Tyr	Leu	Gly	Glu	Val	Leu	Lys	Thr	Tyr	Asn	Val	Ala	Met	Asp	Tyr
		100						105					110		
Pro	Thr	Leu	Leu	Leu	Thr	Val	Trp	Asn	Phe	Gly	Ala	Val	Gly	Met	Val
	115					120						125			
Cys	Ile	His	Trp	Lys	Gly	Pro	Leu	Val	Leu	Gln	Gln	Ala	Tyr	Leu	Ile
	130					135					140				
Met	Ile	Ser	Ala	Leu	Met	Ala	Leu	Val	Phe	Ile	Lys	Tyr	Leu	Pro	Glu
	145				150				155					160	
Trp	Ser	Ala	Trp	Val	Ile	Leu	Gly	Ala	Ile	Ser	Val	Tyr	Asp	Leu	Val
			165					170						175	
Ala	Val	Leu	Cys	Pro	Lys	Gly	Pro	Leu	Arg	Met	Leu	Val	Glu	Thr	Ala
		180						185					190		
Gln	Glu	Arg	Asn	Glu	Pro	Ile	Phe	Pro	Ala	Leu	Ile	Tyr	Ser	Ser	Ala
	195					200						205			
Met	Val	Trp	Thr	Val	Gly	Met	Ala	Lys	Leu	Asp	Pro	Ser	Ser	Gln	Gly
	210					215					220				
Ala	Leu	Gln	Leu	Pro	Tyr	Asp	Pro	Glu	Met	Glu	Glu	Asp	Ser	Tyr	Asp
	225				230					235				240	
Ser	Phe	Gly	Glu	Pro	Ser	Tyr	Pro	Glu	Val	Phe	Glu	Pro	Pro	Leu	Thr
			245					250						255	
Gly	Tyr	Pro	Gly	Glu	Glu	Leu	Glu	Glu	Glu	Glu	Glu	Arg	Gly	Val	Lys
		260					265						270		
Leu	Gly	Leu	Gly	Asp	Phe	Ile	Phe	Tyr	Ser	Val	Leu	Val	Gly	Lys	Ala
	275					280						285			
Ala	Ala	Thr	Gly	Ser	Gly	Asp	Trp	Asn	Thr	Thr	Leu	Ala	Cys	Phe	Val

```

      290              295              300
Ala Ile Leu Ile Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Val Phe
305              310              315              320
Lys Lys Ala Leu Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Ile
              325              330              335
Phe Tyr Phe Ser Thr Asp Asn Leu Val Arg Pro Phe Met Asp Thr Leu
              340              345              350
Ala Ser His Gln Leu Tyr Ile *
              355              359

```

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<210> 1347
<211> 84
<212> PRT
<213> Homo sapiens

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```

      <400> 1347
Met Ile Leu Ser Leu Tyr Tyr Lys Leu Phe Gly Lys Leu Ala Val Ala
  1              5              10              15
Thr Ile Glu Ile Leu His Cys Leu Cys Tyr Ile Glu Phe Val Ile Ile
              20              25              30
Phe Lys Gly Phe Lys Lys Ile Pro Ile Cys Phe Phe Ser Phe Leu Phe
              35              40              45
Ser Phe Val Pro His His Leu Asn Tyr Leu Gly Lys Tyr His Ser Ser
              50              55              60
Lys Phe Glu Tyr Cys Leu Ser Asn Lys Lys Lys Cys Glu Arg Tyr Glu
  65              70              75              80
Glu Glu Arg *
              83

```

```

<210> 1348
<211> 65
<212> PRT
<213> Homo sapiens

```

```

      <400> 1348
Met Val His Leu Leu Leu Val Phe Trp Ser Gly Pro His Asn Leu Gly
  1              5              10              15
Arg Phe Gln Pro Met Lys Leu Phe Ala Ile Cys Leu Asn Gln Ser Gly
              20              25              30
Tyr Ile Ile Ala Phe Phe Val Leu Tyr Thr Asn Arg Met Tyr Ser Ile
              35              40              45
Ile Asn Ile Ile Leu Asn Leu Phe Tyr Pro Val Tyr Tyr Cys Lys Ile
  50              55              60              64
*

```

```

<210> 1349
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1349
Met Pro Ser Pro Ser Gly Leu Trp Arg Ile Leu Leu Leu Val Leu Gly
 1           5           10           15
Ser Val Leu Ser Gly Ser Ala Arg Ala Ala Ala Pro Leu Arg Val Leu
          20           25           30
Arg Gln Thr Ala Leu Cys Cys Ala Thr Glu Ala Leu Val Ala Val Pro
          35           40           45
Glu Gly Ile Pro Thr Glu Thr Arg Leu *
 50           55           57

```

```

<210> 1350
<211> 60
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(60)
<223> Xaa = any amino acid or nothing

```

```

<400> 1350
Met Gly Ile Gly Cys Trp Arg Asn Pro Leu Val Leu Leu Met Ala Leu
 1           5           10           15
Ala Cys Gln Ala Ser Trp Gly Leu Ser Lys Gly Gly Arg Val Leu Pro
          20           25           30
Asn Leu Cys Pro Lys Lys Met Phe Xaa Thr Leu Phe Phe Phe Asn Ser
          35           40           45
Gln Arg Gly Arg Gly Pro Pro Phe Trp Ala Gly Gly
 50           55           60

```

```

<210> 1351
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1351
Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro Met Leu Cys
 1           5           10           15
Thr Cys Tyr Ser Ser Pro Pro Thr Val Ser Cys Gln Ala Asn Asn Phe
          20           25           30
Ser Ser Val Pro Leu Ser Leu Pro Pro Ser Thr Gln Arg Leu Phe Leu
          35           40           45
Gln Asn Asn Leu Ile Arg Thr Leu
 50           55           56

```

```

<210> 1352
<211> 701
<212> PRT
<213> Homo sapiens

```

<400> 1352

Met	Glu	Pro	Leu	Cys	Pro	Leu	Leu	Leu	Val	Gly	Phe	Ser	Leu	Pro	Leu
1				5					10					15	
Ala	Arg	Ala	Leu	Arg	Gly	Asn	Glu	Thr	Thr	Ala	Asp	Ser	Asn	Glu	Thr
			20					25					30		
Thr	Thr	Thr	Ser	Gly	Pro	Pro	Asp	Pro	Gly	Ala	Ser	Gln	Pro	Leu	Leu
			35				40					45			
Ala	Trp	Leu	Leu	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Val	Leu	Leu	Leu	
	50					55					60				
Ala	Ala	Tyr	Phe	Phe	Arg	Phe	Arg	Lys	Gln	Arg	Lys	Ala	Val	Val	Ser
	65				70					75					80
Thr	Ser	Asp	Lys	Lys	Met	Pro	Asn	Gly	Ile	Leu	Glu	Glu	Gln	Glu	Gln
				85					90					95	
Gln	Arg	Val	Met	Leu	Leu	Ser	Arg	Ser	Pro	Ser	Gly	Pro	Lys	Lys	Tyr
			100					105					110		
Phe	Pro	Ile	Pro	Val	Glu	His	Leu	Glu	Glu	Glu	Ile	Arg	Ile	Arg	Ser
		115					120					125			
Ala	Asp	Asp	Cys	Lys	Gln	Phe	Arg	Glu	Glu	Phe	Asn	Ser	Leu	Pro	Ser
	130					135					140				
Gly	His	Ile	Gln	Gly	Thr	Phe	Glu	Leu	Ala	Asn	Lys	Glu	Glu	Asn	Arg
145					150					155					160
Glu	Lys	Asn	Arg	Tyr	Pro	Asn	Ile	Leu	Pro	Asn	Asp	His	Ser	Arg	Val
				165					170					175	
Ile	Leu	Ser	Gln	Leu	Asp	Gly	Ile	Pro	Cys	Ser	Asp	Tyr	Ile	Asn	Ala
			180					185					190		
Ser	Tyr	Ile	Asp	Gly	Tyr	Lys	Glu	Lys	Asn	Lys	Phe	Ile	Ala	Ala	Gln
		195					200					205			
Gly	Pro	Lys	Gln	Glu	Thr	Val	Asn	Asp	Phe	Trp	Arg	Met	Val	Trp	Glu
	210					215					220				
Gln	Lys	Ser	Ala	Thr	Ile	Val	Met	Leu	Thr	Asn	Leu	Lys	Glu	Arg	Lys
225					230					235					240
Glu	Glu	Lys	Cys	His	Gln	Tyr	Trp	Pro	Asp	Gln	Gly	Cys	Trp	Thr	Tyr
				245					250					255	
Gly	Asn	Ile	Arg	Val	Cys	Val	Glu	Asp	Cys	Val	Val	Leu	Val	Asp	Tyr
			260					265					270		
Thr	Ile	Arg	Lys	Phe	Cys	Ile	Gln	Pro	Gln	Leu	Pro	Asp	Gly	Cys	Lys
		275					280					285			
Ala	Pro	Arg	Leu	Val	Ser	Gln	Leu	His	Phe	Thr	Ser	Trp	Pro	Asp	Phe
	290					295					300				
Gly	Val	Pro	Phe	Thr	Pro	Ile	Gly	Met	Leu	Lys	Phe	Leu	Lys	Lys	Val
305					310					315					320
Lys	Thr	Leu	Asn	Pro	Val	His	Ala	Gly	Pro	Ile	Val	Val	His	Cys	Ser
				325					330					335	
Ala	Gly	Val	Gly	Arg	Thr	Gly	Thr	Phe	Ile	Val	Ile	Asp	Ala	Met	Met
			340					345					350		
Ala	Met	Met	His	Ala	Glu	Gln	Lys	Val	Asp	Val	Phe	Glu	Phe	Val	Ser
		355					360					365			
Arg	Ile	Arg	Asn	Gln	Arg	Pro	Gln	Met	Val	Gln	Thr	Asp	Met	Gln	Tyr
	370					375					380				
Thr	Phe	Ile	Tyr	Gln	Ala	Leu	Leu	Glu	Tyr	Tyr	Leu	Tyr	Gly	Asp	Thr
385					390					395					400
Glu	Leu	Asp	Val	Ser	Ser	Leu	Glu	Lys	His	Leu	Gln	Thr	Met	His	Gly
				405					410					415	
Thr	Thr	Thr	His	Phe	Asp	Lys	Ile	Gly	Leu	Glu	Glu	Glu	Phe	Arg	Lys
			420					425					430		
Leu	Thr	Asn	Val	Arg	Ile	Met	Lys	Glu	Asn	Met	Arg	Thr	Gly	Asn	Leu
		435					440					445			
Pro	Ala	Asn	Met	Lys	Lys	Ala	Arg	Val	Ile	Gln	Ile	Ile	Pro	Tyr	Asp
	450					455					460				

```

Phe Asn Arg Val Ile Leu Ser Met Lys Arg Gly Gln Glu Tyr Thr Asp
465                               470           475           480
Tyr Ile Asn Ala Ser Phe Ile Asp Gly Tyr Arg Gln Lys Asp Tyr Phe
                               485           490           495
Ile Ala Thr Gln Gly Pro Leu Ala His Thr Val Glu Asp Phe Trp Arg
                               500           505           510
Met Ile Trp Glu Trp Lys Ser His Thr Ile Val Met Leu Thr Glu Val
                               515           520           525
Gln Glu Arg Glu Gln Asp Lys Cys Tyr Gln Tyr Trp Pro Thr Glu Gly
                               530           535           540
Ser Val Thr His Gly Glu Ile Thr Ile Glu Ile Lys Asn Asp Thr Leu
545                               550           555           560
Ser Glu Ala Ile Ser Ile Arg Asp Phe Leu Val Thr Leu Asn Gln Pro
                               565           570           575
Gln Ala Arg Gln Glu Glu Gln Val Arg Val Val Arg Gln Phe His Phe
                               580           585           590
His Gly Trp Pro Glu Ile Gly Ile Pro Ala Glu Gly Lys Gly Met Ile
                               595           600           605
Asp Leu Ile Ala Ala Val Gln Lys Gln Gln Gln Thr Gly Asn His
610                               615           620
Pro Ile Thr Val His Cys Ser Ala Gly Ala Gly Arg Thr Gly Thr Phe
625                               630           635           640
Ile Ala Leu Ser Asn Ile Leu Glu Arg Val Lys Ala Glu Gly Leu Leu
                               645           650           655
Asp Val Phe Gln Ala Val Lys Ser Leu Arg Leu Gln Arg Pro His Met
                               660           665           670
Val Gln Thr Leu Glu Gln Tyr Glu Phe Cys Tyr Lys Val Val Gln Asp
675                               680           685
Phe Ile Asp Ile Phe Ser Asp Tyr Ala Asn Phe Lys *
690                               695           700

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<210> 1353
<211> 49
<212> PRT
<213> Homo sapiens

```

```

<400> 1353
Met Ala Phe Leu Tyr His Val Ala Tyr Val Leu Val Cys Met Leu Gly
 1                               5           10           15
Leu Phe Cys His Glu Phe Phe Tyr Ser Phe Leu Leu Phe Glu Ser Val
                               20           25           30
Tyr Arg His Gln Thr Leu Leu Asn Asp Ile Pro Cys Val Lys Leu Met
35                               40           45           48
*
```

```

<210> 1354
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1354
Met Ser Val Cys Lys Tyr Thr Val Tyr Gly Phe Phe Ile Phe Ala Phe

```

1		5		10		15									
Phe	Tyr	Phe	Thr	Lys	Asp	Asn	Ile	Pro	Tyr	Leu	Lys	Val	Ser	Leu	Gln
			20					25					30		
Ala	Phe	Cys	Gly	Phe	Gln	Asn	Ile	Ser	Trp	Asn	Lys	Tyr	Thr	Leu	Leu
		35					40					45			
Phe	Tyr	Tyr	Ser	Pro	Leu	Thr	Ile	Ile	*						
	50					55		57							

<210> 1355
 <211> 4261
 <212> PRT
 <213> Homo sapiens

<400> 1355

Met	Leu	Ser	Ala	Ile	Leu	Leu	Leu	Leu	Gln	Leu	Trp	Asp	Ser	Gly	Ala
1				5					10					15	
Gln	Glu	Thr	Asp	Asn	Glu	Arg	Ser	Ala	Gln	Gly	Thr	Ser	Ala	Pro	Leu
			20					25					30		
Leu	Pro	Leu	Leu	Gln	Arg	Phe	Gln	Ser	Ile	Ile	Cys	Arg	Lys	Asp	Ala
		35					40					45			
Pro	His	Ser	Glu	Gly	Asp	Met	His	Leu	Leu	Ser	Gly	Pro	Leu	Ser	Pro
	50				55						60				
Asn	Glu	Ser	Phe	Leu	Arg	Tyr	Leu	Thr	Leu	Pro	Gln	Asp	Asn	Glu	Leu
	65				70					75				80	
Ala	Ile	Asp	Leu	Arg	Gln	Thr	Ala	Val	Val	Val	Met	Ala	His	Leu	Asp
			85						90					95	
Arg	Leu	Ala	Thr	Pro	Cys	Met	Pro	Pro	Leu	Cys	Ser	Ser	Pro	Thr	Ser
		100					105						110		
His	Lys	Gly	Ser	Leu	Gln	Glu	Val	Ile	Gly	Trp	Gly	Leu	Ile	Gly	Trp
	115					120						125			
Lys	Tyr	Tyr	Ala	Asn	Val	Ile	Gly	Pro	Ile	Gln	Cys	Glu	Gly	Leu	Ala
	130				135					140					
Asn	Leu	Gly	Val	Thr	Gln	Ile	Ala	Cys	Ala	Glu	Lys	Arg	Phe	Leu	Ile
	145				150					155				160	
Leu	Ser	Arg	Asn	Gly	Arg	Val	Tyr	Thr	Gln	Ala	Tyr	Asn	Ser	Asp	Thr
			165						170					175	
Leu	Ala	Pro	Gln	Leu	Val	Gln	Gly	Leu	Ala	Ser	Arg	Asn	Ile	Val	Lys
		180					185					190			
Ile	Ala	Ala	His	Ser	Asp	Gly	His	His	Tyr	Leu	Ala	Leu	Ala	Ala	Thr
	195					200						205			
Gly	Glu	Val	Tyr	Ser	Trp	Gly	Cys	Gly	Asp	Gly	Gly	Arg	Leu	Gly	His
	210				215					220					
Gly	Asp	Thr	Val	Pro	Leu	Glu	Glu	Pro	Lys	Val	Ile	Ser	Ala	Phe	Ser
	225				230					235				240	
Gly	Lys	Gln	Ala	Gly	Lys	His	Val	Val	His	Ile	Ala	Cys	Gly	Ser	Thr
			245						250					255	
Tyr	Ser	Ala	Ala	Ile	Thr	Ala	Glu	Gly	Glu	Leu	Tyr	Thr	Trp	Gly	Arg
		260					265						270		
Gly	Asn	Tyr	Gly	Arg	Leu	Gly	His	Gly	Ser	Ser	Glu	Asp	Glu	Ala	Ile
	275					280						285			
Pro	Met	Leu	Val	Ala	Gly	Leu	Lys	Gly	Leu	Lys	Val	Ile	Asp	Val	Ala
	290					295					300				
Cys	Gly	Ser	Gly	Asp	Ala	Gln	Thr	Leu	Ala	Val	Thr	Glu	Asn	Gly	Gln
	305				310					315				320	
Val	Trp	Ser	Trp	Gly	Asp	Gly	Asp	Tyr	Gly	Lys	Leu	Gly	Arg	Gly	Gly
			325						330					335	

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Ser Asp Gly Cys Lys Thr Pro Lys Leu Ile Glu Lys Leu Gln Asp Leu
      340      345      350
Asp Val Val Lys Val Arg Cys Gly Ser Gln Phe Ser Ile Ala Leu Thr
      355      360      365
Lys Asp Gly Gln Val Tyr Ser Trp Gly Lys Gly Asp Asn Gln Arg Leu
      370      375      380
Gly His Gly Thr Glu Glu His Val Arg Tyr Pro Lys Leu Leu Glu Gly
      385      390      395      400
Leu Gln Gly Lys Lys Val Ile Asp Val Ala Ala Gly Ser Thr His Cys
      405      410      415
Leu Ala Leu Thr Glu Asp Ser Glu Val His Ser Trp Gly Ser Asn Asp
      420      425      430
Gln Cys Gln His Phe Asp Thr Leu Arg Val Thr Lys Pro Glu Pro Ala
      435      440      445
Ala Leu Pro Gly Leu Asp Thr Lys His Ile Val Gly Ile Ala Cys Gly
      450      455      460
Pro Ala Gln Ser Phe Ala Trp Ser Ser Cys Ser Glu Trp Ser Ile Gly
      465      470      475      480
Leu Arg Val Pro Phe Val Val Asp Ile Cys Ser Met Thr Phe Glu Gln
      485      490      495
Leu Asp Leu Leu Leu Arg Gln Val Ser Glu Gly Met Asp Gly Ser Ala
      500      505      510
Asp Trp Pro Pro Pro Gln Glu Lys Glu Cys Val Ala Val Ala Thr Leu
      515      520      525
Asn Leu Leu Arg Leu Gln Leu His Ala Ala Ile Ser His Gln Val Asp
      530      535      540
Pro Glu Phe Leu Gly Leu Gly Leu Gly Ser Ile Leu Leu Asn Ser Leu
      545      550      555      560
Lys Gln Thr Val Val Thr Leu Ala Ser Ser Ala Gly Val Leu Ser Thr
      565      570      575
Val Gln Ser Ala Ala Gln Ala Val Leu Gln Ser Gly Trp Ser Val Leu
      580      585      590
Leu Pro Thr Ala Glu Glu Arg Ala Arg Ala Leu Ser Ala Leu Leu Pro
      595      600      605
Cys Ala Val Ser Gly Asn Glu Val Asn Ile Ser Pro Gly Arg Arg Phe
      610      615      620
Met Ile Asp Leu Leu Val Gly Ser Leu Met Ala Asp Gly Gly Leu Glu
      625      630      635      640
Ser Ala Leu His Ala Ala Ile Thr Ala Glu Ile Gln Asp Ile Glu Ala
      645      650      655
Lys Lys Glu Ala Gln Lys Glu Lys Glu Ile Asp Glu Gln Glu Ala Asn
      660      665      670
Ala Ser Thr Phe His Arg Ser Arg Thr Pro Leu Asp Lys Asp Leu Ile
      675      680      685
Asn Thr Gly Ile Cys Glu Ser Ser Gly Lys Gln Cys Leu Pro Leu Val
      690      695      700
Gln Leu Ile Gln Gln Leu Leu Arg Asn Ile Ala Ser Gln Thr Val Ala
      705      710      715      720
Arg Leu Lys Asp Val Ala Arg Arg Ile Ser Ser Cys Leu Asp Phe Glu
      725      730      735
Gln His Ser Arg Glu Arg Ser Ala Ser Leu Asp Trp Leu Leu Arg Phe
      740      745      750
Gln Arg Leu Leu Ile Ser Lys Leu Tyr Pro Gly Glu Ser Ile Gly Gln
      755      760      765
Thr Ser Asp Ile Ser Ser Pro Glu Leu Met Gly Val Gly Ser Leu Leu
      770      775      780
Lys Lys Tyr Thr Ala Leu Leu Cys Thr His Ile Gly Asp Ile Leu Pro
      785      790      795      800
Val Ala Ala Ser Ile Ala Ser Thr Ser Trp Arg His Phe Ala Glu Val

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				805					810					815			
Ala	Tyr	Ile	Val	Glu	Gly	Asp	Phe	Thr	Gly	Val	Leu	Leu	Pro	Glu	Leu		
			820					825					830				
Val	Val	Ser	Ile	Val	Leu	Leu	Leu	Ser	Lys	Asn	Ala	Asp	Leu	Met	Gln		
		835						840					845				
Glu	Ala	Gly	Ala	Val	Pro	Leu	Leu	Gly	Gly	Leu	Leu	Glu	His	Leu	Asp		
	850					855					860						
Arg	Phe	Asn	His	Leu	Ala	Pro	Gly	Lys	Glu	Arg	Asp	Asp	His	Glu	Glu		
865					870					875					880		
Leu	Ala	Trp	Pro	Gly	Ile	Met	Glu	Ser	Phe	Phe	Thr	Gly	Gln	Asn	Cys		
			885						890					895			
Arg	Asn	Asn	Glu	Glu	Val	Thr	Leu	Ile	Arg	Lys	Ala	Asp	Leu	Glu	Asn		
			900					905					910				
His	Asn	Lys	Asp	Gly	Gly	Phe	Trp	Thr	Val	Ile	Asp	Gly	Lys	Val	Tyr		
	915						920					925					
Asp	Ile	Lys	Asp	Phe	Gln	Thr	Gln	Ser	Leu	Thr	Gly	Asn	Ser	Ile	Leu		
	930					935					940						
Ala	Gln	Phe	Ala	Gly	Glu	Asp	Pro	Val	Val	Ala	Leu	Glu	Ala	Ala	Leu		
945					950					955					960		
Gln	Phe	Glu	Asp	Thr	Arg	Glu	Ser	Met	His	Ala	Phe	Cys	Val	Gly	Gln		
			965						970					975			
Tyr	Leu	Glu	Pro	Asp	Gln	Glu	Ile	Val	Thr	Ile	Pro	Asp	Leu	Gly	Ser		
			980					985					990				
Leu	Ser	Ser	Pro	Leu	Ile	Asp	Thr	Glu	Arg	Asn	Leu	Gly	Leu	Leu	Leu		
	995					1000					1005						
Gly	Leu	His	Ala	Ser	Tyr	Leu	Ala	Met	Ser	Thr	Pro	Leu	Ser	Pro	Val		
	1010					1015				1020							
Glu	Ile	Glu	Cys	Ala	Lys	Trp	Leu	Gln	Ser	Ser	Ile	Phe	Ser	Gly	Gly		
1025				1030				1035						1040			
Leu	Gln	Thr	Ser	Gln	Ile	His	Tyr	Arg	Tyr	Asn	Glu	Glu	Lys	Asp	Glu		
			1045					1050					1055				
Asp	His	Cys	Ser	Ser	Pro	Gly	Gly	Thr	Pro	Ala	Ser	Lys	Ser	Arg	Leu		
			1060				1065					1070					
Cys	Ser	His	Arg	Arg	Ala	Leu	Gly	Asp	His	Ser	Gln	Ala	Phe	Leu	Gln		
	1075					1080					1085						
Ala	Ile	Ala	Asp	Asn	Asn	Ile	Gln	Asp	His	Asn	Val	Lys	Asp	Phe	Leu		
	1090				1095					1100							
Cys	Gln	Ile	Glu	Arg	Tyr	Cys	Arg	Gln	Cys	His	Leu	Thr	Thr	Pro	Ile		
1105				1110				1115						1120			
Met	Phe	Pro	Pro	Glu	His	Pro	Val	Glu	Glu	Val	Gly	Arg	Leu	Leu	Leu		
			1125					1130					1135				
Cys	Cys	Leu	Leu	Lys	His	Glu	Asp	Leu	Gly	His	Val	Ala	Leu	Ser	Leu		
		1140				1145					1150						
Val	His	Ala	Gly	Ala	Leu	Gly	Ile	Glu	Gln	Val	Lys	His	Arg	Thr	Leu		
	1155					1160					1165						
Pro	Lys	Ser	Val	Val	Asp	Val	Cys	Arg	Val	Val	Tyr	Gln	Ala	Lys	Cys		
	1170				1175					1180							
Ser	Leu	Ile	Lys	Thr	His	Gln	Glu	Gln	Gly	Arg	Ser	Tyr	Lys	Glu	Val		
1185				1190				1195						1200			
Cys	Ala	Pro	Val	Ile	Glu	Arg	Leu	Arg	Phe	Leu	Phe	Asn	Glu	Leu	Arg		
			1205					1210					1215				
Pro	Ala	Val	Cys	Asn	Asp	Leu	Ser	Ile	Met	Ser	Lys	Phe	Lys	Leu	Leu		
		1220						1225					1230				
Ser	Ser	Leu	Pro	Arg	Trp	Arg	Arg	Ile	Ala	Gln	Lys	Ile	Ile	Arg	Glu		
		1235				1240					1245						
Arg	Arg	Lys	Lys	Arg	Val	Pro	Lys	Lys	Pro	Glu	Ser	Met	Asp	Asp	Glu		
	1250				1255				1260								
Glu	Lys	Ile	Gly	Asn	Glu	Glu	Ser	Asp	Leu	Glu	Glu	Ala	Cys	Ile	Leu		
1265				1270					1275					1280			

Pro His Ser Pro Ile Asn Val Asp Lys Arg Pro Ile Ala Ile Lys Ser
 1285 1290 1295
 Pro Lys Asp Lys Trp Gln Pro Leu Leu Ser Thr Val Thr Gly Val His
 1300 1305 1310
 Lys Tyr Lys Trp Leu Lys Gln Asn Val Gln Gly Leu Tyr Pro Gln Ser
 1315 1320 1325
 Pro Leu Leu Ser Thr Ile Ala Glu Phe Ala Leu Lys Glu Glu Pro Val
 1330 1335 1340
 Asp Val Glu Lys Met Arg Lys Cys Leu Leu Lys Gln Leu Glu Arg Ala
 1345 1350 1355 1360
 Glu Val Arg Leu Glu Gly Ile Asp Thr Ile Leu Lys Leu Ala Ser Lys
 1365 1370 1375
 Asn Phe Leu Leu Pro Ser Val Gln Tyr Ala Met Phe Cys Gly Trp Gln
 1380 1385 1390
 Arg Leu Ile Pro Glu Gly Ile Asp Ile Gly Glu Pro Leu Thr Asp Cys
 1395 1400 1405
 Leu Lys Asp Val Asp Leu Ile Pro Pro Phe Asn Arg Met Leu Leu Glu
 1410 1415 1420
 Val Thr Phe Gly Lys Leu Tyr Ala Trp Ala Val Gln Asn Ile Arg Asn
 1425 1430 1435 1440
 Val Leu Met Asp Ala Ser Ala Thr Phe Lys Glu Leu Gly Ile Gln Pro
 1445 1450 1455
 Val Pro Leu Gln Thr Ile Thr Asn Glu Asn Pro Ser Gly Pro Ser Leu
 1460 1465 1470
 Gly Thr Ile Pro Gln Ala Arg Phe Leu Leu Val Met Leu Ser Met Leu
 1475 1480 1485
 Thr Leu Gln His Gly Ala Asn Asn Leu Asp Leu Leu Asn Ser Gly
 1490 1495 1500
 Met Leu Ala Leu Thr Gln Thr Ala Leu Arg Leu Ile Gly Pro Ser Cys
 1505 1510 1515 1520
 Asp Asn Val Glu Glu Asp Met Asn Ala Ser Ala Gln Gly Ala Ser Ala
 1525 1530 1535
 Thr Val Leu Glu Glu Thr Arg Lys Glu Thr Ala Pro Val Gln Leu Pro
 1540 1545 1550
 Val Ser Gly Pro Glu Leu Ala Ala Met Met Lys Ile Gly Thr Arg Val
 1555 1560 1565
 Met Arg Gly Val Asp Trp Lys Trp Gly Asp Gln Asp Gly Pro Pro Pro
 1570 1575 1580
 Gly Leu Gly Arg Val Ile Gly Glu Leu Gly Glu Asp Gly Trp Ile Arg
 1585 1590 1595 1600
 Val Gln Trp Asp Thr Gly Ser Thr Asn Ser Tyr Arg Met Gly Lys Glu
 1605 1610 1615
 Gly Lys Tyr Asp Leu Lys Leu Ala Glu Leu Pro Ala Ala Ala Gln Pro
 1620 1625 1630
 Ser Ala Glu Asp Ser Asp Thr Glu Asp Asp Ser Glu Ala Glu Gln Thr
 1635 1640 1645
 Glu Arg Asn Ile His Pro Thr Ala Met Met Phe Thr Ser Thr Ile Asn
 1650 1655 1660
 Leu Leu Gln Thr Leu Cys Leu Ser Ala Gly Val His Ala Glu Ile Met
 1665 1670 1675 1680
 Gln Ser Glu Ala Thr Lys Thr Leu Cys Gly Leu Leu Arg Met Leu Val
 1685 1690 1695
 Glu Ser Gly Thr Thr Asp Lys Thr Ser Ser Pro Asn Arg Leu Val Tyr
 1700 1705 1710
 Arg Glu Gln His Arg Ser Trp Cys Thr Leu Gly Phe Val Arg Ser Ile
 1715 1720 1725
 Ala Leu Thr Pro Gln Val Cys Gly Ala Leu Ser Ser Pro Gln Trp Ile
 1730 1735 1740
 Thr Leu Leu Met Lys Val Val Glu Gly His Ala Pro Phe Thr Ala Thr

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1745          1750          1755          1760
Ser Leu Gln Arg Gln Ile Leu Ala Val His Leu Leu Gln Ala Val Leu
          1765          1770          1775
Pro Ser Trp Asp Lys Thr Glu Arg Ala Arg Asp Met Lys Cys Leu Val
          1780          1785          1790
Glu Lys Leu Phe Asp Phe Leu Gly Ser Leu Leu Thr Thr Cys Ser Ser
          1795          1800          1805
Asp Val Pro Leu Leu Arg Glu Ser Thr Leu Arg Arg Arg Val Arg
          1810          1815          1820
Pro Gln Ala Ser Leu Thr Ala Thr His Ser Ser Thr Leu Ala Glu Glu
1825          1830          1835          1840
Val Val Ala Leu Leu Arg Thr Leu His Ser Leu Thr Gln Trp Asn Gly
          1845          1850          1855
Leu Ile Asn Lys Tyr Ile Asn Ser Gln Leu Arg Ser Ile Thr His Ser
          1860          1865          1870
Phe Val Gly Arg Pro Ser Glu Gly Ala Gln Leu Glu Asp Tyr Phe Pro
          1875          1880          1885
Asp Ser Glu Asn Pro Glu Val Gly Gly Leu Met Ala Val Leu Ala Val
          1890          1895          1900
Ile Gly Gly Ile Asp Gly Arg Leu Arg Leu Gly Gly Gln Val Met His
1905          1910          1915          1920
Asp Glu Phe Gly Glu Gly Thr Val Thr Arg Ile Thr Pro Lys Gly Lys
          1925          1930          1935
Ile Thr Val Gln Phe Ser Asp Met Arg Thr Cys Arg Val Cys Pro Leu
          1940          1945          1950
Asn Gln Leu Lys Pro Leu Pro Ala Val Ala Phe Asn Val Asn Asn Leu
          1955          1960          1965
Pro Phe Thr Glu Pro Met Leu Ser Val Trp Ala Gln Leu Val Asn Leu
          1970          1975          1980
Ala Gly Ser Lys Leu Glu Lys His Lys Ile Lys Lys Ser Thr Lys Gln
1985          1990          1995          2000
Ala Phe Ala Gly Gln Val Asp Leu Asp Leu Leu Arg Cys Gln Gln Leu
          2005          2010          2015
Lys Leu Tyr Ile Leu Lys Ala Gly Arg Ala Leu Leu Ser His Gln Asp
          2020          2025          2030
Lys Leu Arg Gln Ile Leu Ser Gln Pro Ala Val Gln Glu Thr Gly Thr
          2035          2040          2045
Val His Thr Asp Asp Gly Ala Val Val Ser Pro Asp Leu Gly Asp Met
          2050          2055          2060
Ser Pro Glu Gly Pro Gln Pro Pro Met Ile Leu Leu Gln Gln Leu Leu
2065          2070          2075          2080
Ala Ser Ala Thr Gln Pro Ser Pro Val Lys Ala Ile Phe Asp Lys Gln
          2085          2090          2095
Glu Leu Glu Ala Ala Leu Ala Val Cys Gln Cys Leu Ala Val Glu
          2100          2105          2110
Ser Thr His Pro Ser Ser Pro Gly Phe Glu Asp Cys Ser Ser Ser Glu
          2115          2120          2125
Ala Thr Thr Pro Val Ala Val Gln His Ile His Pro Ala Arg Val Lys
          2130          2135          2140
Arg Arg Lys Gln Ser Pro Val Pro Ala Leu Pro Ile Val Val Gln Leu
2145          2150          2155          2160
Met Glu Met Gly Phe Ser Arg Arg Asn Ile Glu Phe Ala Leu Lys Ser
          2165          2170          2175
Leu Thr Gly Ala Ser Gly Asn Ala Ser Ser Leu Pro Gly Val Glu Ala
          2180          2185          2190
Leu Val Gly Trp Leu Leu Asp His Ser Asp Ile Gln Val Thr Glu Leu
          2195          2200          2205
Ser Asp Ala Asp Thr Val Ser Asp Glu Tyr Ser Asp Glu Glu Val Val
          2210          2215          2220

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Glu Asp Val Asp Asp Ala Ala Tyr Ser Met Ser Thr Gly Ala Val Val
 2225 2230 2235 2240
 Thr Glu Ser Gln Thr Tyr Lys Lys Arg Ala Asp Phe Leu Ser Asn Asp
 2245 2250 2255
 Asp Tyr Ala Val Tyr Val Arg Glu Asn Ile Gln Val Gly Met Met Val
 2260 2265 2270
 Arg Cys Cys Arg Ala Tyr Glu Glu Val Cys Glu Gly Asp Val Gly Lys
 2275 2280 2285
 Val Ile Lys Leu Asp Arg Asp Gly Leu His Asp Leu Asn Val Gln Cys
 2290 2295 2300
 Asp Trp Gln Gln Lys Gly Gly Thr Tyr Trp Val Arg Tyr Ile His Val
 2305 2310 2315 2320
 Glu Leu Ile Gly Tyr Pro Pro Pro Ser Ser Ser Ser His Ile Lys Ile
 2325 2330 2335
 Gly Asp Lys Val Arg Val Lys Ala Ser Val Thr Thr Pro Lys Tyr Lys
 2340 2345 2350
 Trp Gly Ser Val Thr His Gln Ser Val Gly Val Val Lys Ala Phe Ser
 2355 2360 2365
 Ala Asn Gly Lys Asp Ile Ile Val Asp Phe Pro Gln Gln Ser His Trp
 2370 2375 2380
 Thr Gly Leu Leu Ser Glu Met Glu Leu Val Pro Ser Ile His Pro Gly
 2385 2390 2395 2400
 Val Thr Cys Asp Gly Cys Gln Met Phe Pro Ile Asn Gly Ser Arg Phe
 2405 2410 2415
 Lys Cys Arg Asn Cys Asp Asp Phe Asp Phe Cys Glu Thr Cys Phe Lys
 2420 2425 2430
 Thr Lys Lys His Asn Thr Arg His Thr Phe Gly Arg Ile Asn Glu Pro
 2435 2440 2445
 Gly Gln Ser Ala Val Phe Cys Gly Arg Ser Gly Lys Gln Leu Lys Arg
 2450 2455 2460
 Cys His Ser Ser Gln Pro Gly Met Leu Leu Asp Ser Trp Ser Arg Met
 2465 2470 2475 2480
 Val Lys Ser Leu Asn Val Ser Ser Ser Val Asn Gln Ala Ser Arg Leu
 2485 2490 2495
 Ile Asp Gly Ser Glu Pro Cys Trp Gln Ser Ser Gly Ser Gln Gly Lys
 2500 2505 2510
 His Trp Ile Arg Leu Glu Ile Phe Pro Asp Val Leu Val His Arg Leu
 2515 2520 2525
 Lys Met Ile Val Asp Pro Ala Asp Ser Ser Tyr Met Pro Ser Leu Val
 2530 2535 2540
 Val Val Ser Gly Gly Asn Ser Leu Asn Asn Leu Ile Glu Leu Lys Thr
 2545 2550 2555 2560
 Ile Asn Ile Asn Pro Ser Asp Thr Thr Val Pro Leu Leu Asn Asp Tyr
 2565 2570 2575
 Thr Glu Tyr His Arg Tyr Ile Glu Ile Ala Ile Lys Gln Cys Arg Ser
 2580 2585 2590
 Ser Gly Ile Asp Cys Lys Ile His Gly Leu Ile Leu Leu Gly Arg Ile
 2595 2600 2605
 Arg Ala Glu Glu Glu Asp Leu Ala Ala Val Pro Phe Leu Ala Ser Asp
 2610 2615 2620
 Asn Glu Glu Glu Glu Asp Glu Lys Gly Asn Ser Gly Ser Leu Ile Arg
 2625 2630 2635 2640
 Lys Lys Ala Ala Gly Leu Glu Ser Ala Ala Thr Ile Arg Thr Lys Val
 2645 2650 2655
 Phe Val Trp Gly Leu Asn Asp Lys Asp Gln Leu Gly Gly Leu Lys Gly
 2660 2665 2670
 Ser Lys Ile Lys Val Pro Ser Phe Ser Glu Thr Leu Ser Ala Leu Asn
 2675 2680 2685
 Val Val Gln Val Ala Gly Gly Ser Lys Ser Leu Phe Ala Val Thr Val

2690 2695 2700
 Glu Gly Lys Val Tyr Ala Cys Gly Glu Ala Thr Asn Gly Arg Leu Gly
 2705 2710 2715 2720
 Leu Gly Ile Ser Ser Gly Thr Val Pro Ile Pro Arg Gln Ile Thr Ala
 2725 2730 2735
 Leu Ser Ser Tyr Val Val Lys Lys Val Ala Val His Ser Gly Gly Arg
 2740 2745 2750
 His Ala Thr Ala Leu Thr Val Asp Gly Lys Val Phe Ser Trp Gly Glu
 2755 2760 2765
 Gly Asp Asp Gly Lys Leu Gly His Phe Ser Arg Met Asn Cys Asp Lys
 2770 2775 2780
 Pro Arg Leu Ile Glu Ala Leu Lys Thr Lys Arg Ile Arg Asp Ile Ala
 2785 2790 2795 2800
 Cys Gly Ser Ser His Ser Ala Ala Leu Thr Ser Ser Gly Glu Leu Tyr
 2805 2810 2815
 Thr Trp Gly Leu Gly Glu Tyr Gly Arg Leu Gly His Gly Asp Asn Thr
 2820 2825 2830
 Thr Gln Leu Lys Pro Lys Met Val Lys Val Leu Leu Gly His Arg Val
 2835 2840 2845
 Ile Gln Val Ala Cys Gly Ser Arg Asp Ala Gln Thr Leu Ala Leu Thr
 2850 2855 2860
 Asp Glu Gly Leu Val Phe Ser Trp Gly Asp Gly Asp Phe Gly Lys Leu
 2865 2870 2875 2880
 Gly Arg Gly Gly Ser Glu Gly Cys Asn Ile Pro Gln Asn Ile Glu Arg
 2885 2890 2895
 Leu Asn Gly Gln Gly Val Cys Gln Ile Glu Cys Gly Ala Gln Phe Ser
 2900 2905 2910
 Leu Ala Leu Thr Lys Ser Gly Val Val Trp Thr Trp Gly Lys Gly Asp
 2915 2920 2925
 Tyr Phe Arg Leu Gly His Gly Ser Asp Val His Val Arg Lys Pro Gln
 2930 2935 2940
 Val Val Glu Gly Leu Arg Gly Lys Lys Ile Val His Val Ala Val Gly
 2945 2950 2955 2960
 Ala Leu His Cys Leu Ala Val Thr Asp Ser Gly Gln Val Tyr Ala Trp
 2965 2970 2975
 Gly Asp Asn Asp His Gly Gln Gln Gly Asn Gly Thr Thr Thr Val Asn
 2980 2985 2990
 Arg Lys Pro Thr Leu Val Gln Gly Leu Glu Gly Gln Lys Ile Thr Arg
 2995 3000 3005
 Val Ala Cys Gly Ser Ser His Ser Val Ala Trp Thr Thr Val Asp Val
 3010 3015 3020
 Ala Thr Pro Ser Val His Glu Pro Val Leu Phe Gln Thr Ala Arg Asp
 3025 3030 3035 3040
 Pro Leu Gly Ala Ser Tyr Leu Gly Val Pro Ser Asp Ala Asp Ser Ser
 3045 3050 3055
 Ala Ala Ser Asn Lys Ile Ser Gly Ala Ser Asn Ser Lys Pro Asn Arg
 3060 3065 3070
 Pro Ser Leu Ala Lys Ile Leu Leu Ser Leu Asp Gly Asn Leu Ala Lys
 3075 3080 3085
 Gln Gln Ala Leu Ser His Ile Leu Thr Ala Leu Gln Ile Met Tyr Ala
 3090 3095 3100
 Arg Asp Ala Val Val Gly Ala Leu Met Pro Ala Ala Met Ile Ala Pro
 3105 3110 3115 3120
 Val Glu Cys Pro Ser Phe Ser Ser Ala Ala Pro Ser Asp Ala Ser Ala
 3125 3130 3135
 Met Ala Ser Pro Met Asn Gly Glu Glu Cys Met Leu Ala Val Asp Ile
 3140 3145 3150
 Glu Asp Arg Leu Ser Pro Asn Pro Trp Gln Glu Lys Arg Glu Ile Val
 3155 3160 3165

Ser Ser Glu Asp Ala Val Thr Pro Ser Ala Val Thr Pro Ser Ala Pro
 3170 3175 3180
 Ser Ala Ser Ala Arg Pro Phe Ile Pro Val Thr Asp Asp Leu Gly Ala
 3185 3190 3195 3200
 Ala Ser Ile Ile Ala Glu Thr Met Thr Lys Thr Lys Glu Asp Val Glu
 3205 3210 3215
 Ser Gln Asn Lys Ala Ala Gly Pro Glu Pro Gln Ala Leu Asp Glu Phe
 3220 3225 3230
 Thr Ser Leu Leu Ile Ala Asp Asp Thr Arg Val Val Val Asp Leu Leu
 3235 3240 3245
 Lys Leu Ser Val Cys Ser Arg Ala Gly Asp Arg Gly Arg Asp Val Leu
 3250 3255 3260
 Ser Ala Val Leu Ser Gly Met Gly Thr Ala Tyr Pro Gln Val Ala Asp
 3265 3270 3275 3280
 Met Leu Leu Glu Leu Cys Val Thr Glu Leu Glu Asp Val Ala Thr Asp
 3285 3290 3295
 Ser Gln Ser Gly Arg Leu Ser Ser Gln Pro Val Val Val Glu Ser Ser
 3300 3305 3310
 His Pro Tyr Thr Asp Asp Thr Ser Thr Ser Gly Thr Val Lys Ile Pro
 3315 3320 3325
 Gly Ala Glu Gly Leu Arg Val Glu Phe Asp Arg Gln Cys Ser Thr Glu
 3330 3335 3340
 Arg Arg His Asp Pro Leu Thr Val Met Asp Gly Val Asn Arg Ile Val
 3345 3350 3355 3360
 Ser Val Arg Ser Gly Arg Glu Trp Ser Asp Trp Ser Ser Glu Leu Arg
 3365 3370 3375
 Ile Pro Gly Asp Glu Leu Lys Trp Lys Phe Ile Ser Asp Gly Ser Val
 3380 3385 3390
 Asn Gly Trp Gly Trp Arg Phe Thr Val Tyr Pro Ile Met Pro Ala Ala
 3395 3400 3405
 Gly Pro Lys Glu Leu Leu Ser Asp Arg Cys Val Leu Ser Cys Pro Ser
 3410 3415 3420
 Met Asp Leu Val Thr Cys Leu Leu Asp Phe Arg Leu Asn Leu Ala Ser
 3425 3430 3435 3440
 Asn Arg Ser Ile Val Pro Arg Leu Ala Ala Ser Leu Ala Ala Cys Ala
 3445 3450 3455
 Gln Leu Ser Ala Leu Ala Ala Ser His Arg Met Trp Ala Leu Gln Arg
 3460 3465 3470
 Leu Arg Lys Leu Leu Thr Thr Glu Phe Gly Gln Ser Ile Asn Ile Asn
 3475 3480 3485
 Arg Leu Leu Gly Glu Asn Asp Gly Glu Thr Arg Ala Leu Ser Phe Thr
 3490 3495 3500
 Gly Ser Ala Leu Ala Ala Leu Val Lys Gly Leu Pro Glu Ala Leu Gln
 3505 3510 3515 3520
 Arg Gln Phe Glu Tyr Glu Asp Pro Ile Val Arg Gly Gly Lys Gln Leu
 3525 3530 3535
 Leu His Ser Pro Phe Phe Lys Val Leu Val Ala Leu Ala Cys Asp Leu
 3540 3545 3550
 Glu Leu Asp Thr Leu Pro Cys Cys Ala Glu Thr His Lys Trp Ala Trp
 3555 3560 3565
 Phe Arg Arg Tyr Cys Met Ala Ser Arg Val Ala Val Ala Leu Asp Lys
 3570 3575 3580
 Arg Thr Pro Leu Pro Arg Leu Phe Leu Asp Glu Val Ala Lys Lys Ile
 3585 3590 3595 3600
 Arg Glu Leu Met Ala Asp Ser Glu Asn Met Asp Val Leu His Glu Ser
 3605 3610 3615
 His Asp Ile Phe Lys Arg Glu Gln Asp Glu Gln Leu Val Gln Trp Met
 3620 3625 3630
 Asn Arg Arg Pro Asp Asp Trp Thr Leu Ser Ala Gly Gly Ser Gly Thr

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      3635      3640      3645
Ile Tyr Gly Trp Gly His Asn His Arg Gly Gln Leu Gly Gly Ile Glu
      3650      3655      3660
Gly Ala Lys Val Lys Val Pro Thr Pro Cys Glu Ala Leu Ala Thr Leu
3665      3670      3675      3680
Arg Pro Val Gln Leu Ile Gly Gly Glu Gln Thr Leu Phe Ala Val Thr
      3685      3690      3695
Ala Asp Gly Lys Leu Tyr Ala Thr Gly Tyr Gly Ala Gly Gly Arg Leu
      3700      3705      3710
Gly Ile Gly Gly Thr Glu Ser Val Ser Thr Pro Thr Leu Leu Glu Ser
      3715      3720      3725
Ile Gln His Val Phe Ile Lys Lys Val Ala Val Asn Ser Gly Gly Lys
      3730      3735      3740
His Cys Leu Ala Leu Ser Ser Glu Gly Glu Val Tyr Ser Trp Gly Glu
3745      3750      3755      3760
Ala Glu Asp Gly Lys Leu Gly His Gly Asn Arg Ser Pro Cys Asp Arg
      3765      3770      3775
Pro Arg Val Ile Glu Ser Leu Arg Gly Ile Glu Val Val Asp Val Ala
      3780      3785      3790
Ala Gly Gly Ala His Ser Ala Cys Val Thr Ala Ala Gly Asp Leu Tyr
      3795      3800      3805
Thr Trp Gly Lys Gly Arg Tyr Gly Arg Leu Gly His Ser Asp Ser Glu
      3810      3815      3820
Asp Gln Leu Lys Pro Lys Leu Val Glu Ala Leu Gln Gly His Arg Val
3825      3830      3835      3840
Val Asp Ile Ala Cys Gly Ser Gly Asp Ala Gln Thr Leu Cys Leu Thr
      3845      3850      3855
Asp Asp Asp Thr Val Trp Ser Trp Gly Asp Gly Asp Tyr Gly Lys Leu
      3860      3865      3870
Gly Arg Gly Gly Ser Asp Gly Cys Lys Val Pro Met Lys Ile Asp Ser
      3875      3880      3885
Leu Thr Gly Leu Gly Val Val Lys Val Glu Cys Gly Ser Gln Phe Ser
      3890      3895      3900
Val Ala Leu Thr Lys Ser Gly Ala Val Tyr Thr Trp Gly Lys Gly Asp
3905      3910      3915      3920
Tyr His Arg Leu Gly His Gly Ser Asp Asp His Val Arg Arg Pro Arg
      3925      3930      3935
Gln Val Gln Gly Leu Gln Gly Lys Lys Val Ile Ala Ile Ala Thr Gly
      3940      3945      3950
Ser Leu His Cys Val Cys Cys Thr Glu Asp Gly Glu Val Tyr Thr Trp
      3955      3960      3965
Gly Asp Asn Asp Glu Gly Gln Leu Gly Asp Gly Thr Thr Asn Ala Ile
      3970      3975      3980
Gln Arg Pro Arg Leu Val Ala Ala Leu Gln Gly Lys Lys Val Asn Arg
3985      3990      3995      4000
Val Ala Cys Gly Ser Ala His Thr Leu Ala Trp Ser Thr Ser Lys Pro
      4005      4010      4015
Ala Ser Ala Gly Lys Leu Pro Ala Gln Val Pro Met Glu Tyr Asn His
      4020      4025      4030
Leu Gln Glu Ile Pro Ile Ile Ala Leu Arg Asn Arg Leu Leu Leu Leu
      4035      4040      4045
His His Leu Ser Glu Leu Phe Cys Pro Cys Ile Pro Met Phe Asp Leu
      4050      4055      4060
Glu Gly Ser Leu Asp Glu Thr Gly Leu Gly Pro Ser Val Gly Phe Asp
4065      4070      4075      4080
Thr Leu Arg Gly Ile Leu Ile Ser Gln Gly Lys Glu Ala Ala Phe Arg
      4085      4090      4095
Lys Val Val Gln Ala Thr Met Val Arg Asp Arg Gln His Gly Pro Val
      4100      4105      4110

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Val Glu Leu Asn Arg Ile Gln Val Lys Arg Ser Arg Ser Lys Gly Gly
    4115                      4120                      4125
Leu Ala Gly Pro Asp Gly Thr Lys Ser Val Phe Gly Gln Met Cys Ala
    4130                      4135                      4140
Lys Met Ser Ser Phe Gly Pro Asp Ser Leu Leu Leu Pro His Arg Val
4145                      4150                      4155                      4160
Trp Lys Val Lys Phe Val Gly Glu Ser Val Asp Asp Cys Gly Gly Gly
    4165                      4170                      4175
Tyr Ser Glu Ser Ile Ala Glu Ile Cys Glu Glu Leu Gln Asn Gly Leu
    4180                      4185                      4190
Thr Pro Leu Leu Ile Val Thr Pro Asn Gly Arg Asp Glu Ser Gly Ala
    4195                      4200                      4205
Asn Arg Asp Cys Tyr Leu Leu Ser Pro Ala Ala Arg Ala Pro Val His
    4210                      4215                      4220
Ser Ser Met Phe Arg Phe Leu Gly Val Leu Leu Gly Ile Ala Ile Arg
4225                      4230                      4235                      4240
Thr Gly Ser Pro Leu Ser Leu Asn Pro Cys Arg Ala Leu Ser Gly Ser
    4245                      4250                      4255
Ser Trp Leu Gly *
    4260

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<210> 1356
<211> 64
<212> PRT
<213> Homo sapiens

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<400> 1356
Met Ser Lys Val Lys Pro Leu His Gly Ala Pro Ala Pro Leu Leu Val
  1                      5                      10                      15
Ser Leu Cys Leu Leu Ser Trp Cys Gly Leu Pro Gly Val Ile Val His
    20                      25                      30
Val Thr Tyr Val Ser Pro Arg His Leu Ser Asn Thr Arg Ser Gly Leu
    35                      40                      45
Glu Ser Ile His Gly Cys Asp Pro Met His Gly Ser Pro Val Gly *
    50                      55                      60                      63

```

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<210> 1357
<211> 111
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(111)
<223> Xaa = any amino acid or nothing

```

```

<400> 1357
Met Ile Phe Asn Lys Ala Ala Asp Thr Leu Gly Asp Val Trp Ile Leu
  1                      5                      10                      15
Leu Ala Thr Leu Lys Val Leu Ser Leu Trp Leu Leu Tyr Tyr Val
    20                      25                      30
Ala Ser Thr Thr Arg Gln Pro His Ala Val Leu Tyr Gln Asp Pro His
    35                      40                      45
Ala Gly Pro Leu Trp Val Arg Ser Ser Leu Val Leu Phe Gly Ser Cys

```


50						55						60				
Thr	Phe	Cys	Leu	Asn	Ile	Phe	Arg	Val	Gly	Tyr	Asp	Val	Ser	His	Ile	
65					70					75					80	
Arg	Cys	Lys	Ser	Gln	Leu	Asp	Leu	Val	Phe	Pro	Val	Ile	Glu	Met	Val	
				85					90					95		
Phe	Ile	Gly	Val	Gln	Thr	Cys	Val	Leu	Trp	Lys	His	Cys	Arg	Xaa		
			100					105					110	111		

<210> 1358
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1358																
Met	Ala	Leu	Leu	Ile	Ser	Thr	Cys	Ile	Asn	Lys	Ala	Val	Leu	Arg	Phe	
1				5					10					15		
Thr	Leu	Ser	Ser	Met	Asn	Asn	Lys	Ile	Ile	Leu	Ser	Trp	Tyr	Ser	Phe	
			20					25					30			
Asn	Val	Ile	Leu	Ile	Phe	His	Glu	Asn	Val	Val	Tyr	Tyr	Ile	*		
		35					40					45	46			

<210> 1359
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1359																
Met	Phe	Ser	Pro	Cys	Gly	Pro	Ala	Ser	Leu	Gly	Leu	Leu	Phe	Val	Leu	
1				5					10					15		
Cys	Thr	His	Ser	Gln	Ala	Leu	Ala	Phe	Phe	Trp	Gly	Pro	Ser	Ser	Leu	
			20					25					30			
Ile	Gly	Ala	Ser	Gly	Phe	Leu	Leu	Gln	Arg	Thr	Ser	Leu	Leu	Arg	His	
		35					40					45				
Val	Phe	Leu	Gly	Leu	Val	Tyr	Ala	Cys	Trp	Ala	His	Trp	Leu	Tyr	Cys	
	50					55					60					
Ser	Ser	Arg	Pro	Val	Thr	Lys	Glu	*								
65					70		72									

<210> 1360
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1360																
Met	Lys	Thr	Gly	Ser	Leu	Leu	Leu	Thr	Leu	Trp	Phe	Ser	Gln	Thr	Phe	
1				5					10					15		
Ser	Phe	Asn	Leu	Phe	Phe	Ala	Pro	Pro	His	Ser	Leu	Leu	Gln	Ser	Ser	
			20					25					30			
Ile	Phe	Phe	Ser	Val	Ser	Ser	Ile	Thr	Thr	Val	His	Pro	Ile	Leu	Val	
		35					40					45				

Phe Phe Phe Ala Phe Phe Arg Thr *
 50 55 56

<210> 1361
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1361
 Met Phe Val Leu Phe Leu Ile Leu Val Leu Arg Asn His Phe Leu Val
 1 5 10 15
 Thr Ile Lys Tyr Gly Val Gly Cys Gly Phe Ile Ile Ser Val Cys Leu
 20 25 30
 Arg Ala Lys His Phe Asn Phe Asp Glu Ala Gln Phe Val Ser Phe Phe
 35 40 45
 Leu Cys Asp Ser Cys Phe Cys Leu Leu Arg Asn Leu Pro Thr Gln Arg
 50 55 60
 Leu Gln Arg Phe Phe Phe Cys Trp Phe Phe Leu Ile *
 65 70 75 76

<210> 1362
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1362
 Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met
 1 5 10 15
 Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser
 20 25 30
 Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Pro
 35 40 45
 Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg
 50 55 60
 Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His
 65 70 75 80
 Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Ala Ala Leu
 85 90 95
 Leu Lys Ile Met Cys Lys Gln Leu Leu *
 100 105

<210> 1363
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1363
 Met Ala Trp Lys Pro Leu Gly Arg Gln Ala Val Leu Arg Glu Thr Pro
 1 5 10 15
 Leu Ala Thr Leu Cys Ile Asp Arg Arg Gln Val Ser Ser Ser Leu Val

```

          20          25          30
Gln Glu Gly Phe His Ser Lys Ser Cys His Cys Leu Gly Asp Ser Phe
          35          40          45
Arg Glu Lys Asn Gln Val Val Gly *
          50          55  56

```

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<210> 1364
<211> 75
<212> PRT
<213> Homo sapiens

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```

<400> 1364
Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1          5          10          15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
          20          25          30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
          35          40          45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
          50          55          60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu *
          65          70          74

```

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<210> 1365
<211> 58
<212> PRT
<213> Homo sapiens

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```

<400> 1365
Met Lys Leu Gln Val Phe Ala Val Asn Ile Thr Ala Leu Lys Ala Ala
 1          5          10          15
Arg Leu Glu Leu Phe Val Leu Pro Gly Gly Phe Ile Val Phe Leu Ala
          20          25          30
Ser Glu Leu Lys Leu Gln Thr Ser Leu Glu Ser Val Ala Pro His Lys
          35          40          45
Asp Ser Met Ser Leu Lys Ser Glu His *
          50          55          57

```

```

<210> 1366
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1366
Met His Cys Ser Phe Ile Ser Ala Phe Leu Leu Pro Val Phe Leu Ser
 1          5          10          15
Leu Thr Val Ser Ala Ser Ile Phe Val Ser Leu His Ser Phe Pro Leu
          20          25          30
Ser Leu Ser Tyr Phe Ser Phe Leu Gly Ser Phe Phe Leu Ser Val Cys
          35          40          45

```

Leu Asp Leu Tyr Ser Ser Leu Phe Phe *
 50 55 57

<210> 1367
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1367
 Met Met Gly Arg Ile Phe Ala Ala Leu Ser Leu Ile Lys Leu Met Met
 1 5 10 15
 Tyr Ser Leu Phe Pro Val Ile Glu Ser Ser Leu Cys His Leu Glu Val
 20 25 30
 Trp Ala Trp Arg His Ile Trp Pro Thr Ala Gly Arg Gly Val Pro *
 35 40 45 47

<210> 1368
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1368
 Met Gly Arg Arg Lys Ser Phe Phe Phe Leu Phe Leu Glu Cys Arg Gln
 1 5 10 15
 Lys Gly Leu His Ile Pro Leu Cys Thr Cys Ser His Ala Pro Arg Pro
 20 25 30
 Pro Leu Ala Ala Pro Ser Ala Leu Ile Leu Pro Pro Glu Ile Ser His
 35 40 45
 Thr Ser Arg Gly Ile Leu Leu Ser His Gly Leu Phe Pro Thr Ala Thr
 50 55 60
 Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Thr Val Thr
 65 70 75 80
 Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Ser Thr *
 85 90 95

<210> 1369
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1369
 Met Trp Asp His Phe Ile Leu Ser Arg Val Leu Phe Cys Leu Phe Val
 1 5 10 15
 Phe His Ser Arg Val Leu Lys Asp His Met Ala Ser Asn Ala Tyr Lys
 20 25 30
 Ser Ala Leu Phe Phe Thr Val Arg Tyr Leu Glu Thr Lys Gln Phe Leu
 35 40 45
 Leu Arg Cys Cys Cys Trp Pro Asp Ala Val Ala His Ala Cys Asn Thr
 50 55 60
 Ser Thr Leu Arg Gly Gln Gly Arg His Ile Thr *

65

70

75

<210> 1370
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1370
 Met Cys Ser Cys Leu His Thr Leu Gln Arg Arg Phe Leu His Phe Val
 1 5 10 15
 Ser Ile Ala Leu Ser Lys Ile Trp Gln Asn Asn Ala Phe His Leu Gln
 20 25 30
 Val Glu Val Ser Trp Leu Ser Thr Phe Val Asp Lys Val Ile Val Met
 35 40 45
 Arg Leu Ile Ser Ser Lys His Phe Thr Asp Thr Met Asn Asp Arg Val
 50 55 60
 His Ser Phe Leu Asn Asp Ile Gly Phe Val Cys Leu Leu Ser *

65 70 75 78

<210> 1371
 <211> 227
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(227)
 <223> Xaa = any amino acid or nothing

<400> 1371
 Met Leu Tyr Phe Gln Leu Val Ile Met Ala Gly Thr Val Leu Leu Ala
 1 5 10 15
 Tyr Tyr Phe Glu Cys Thr Asp Thr Phe Gln Val His Ile Gln Gly Phe
 20 25 30
 Phe Cys Gln Asp Gly Asp Leu Met Lys Pro Tyr Pro Gly Thr Glu Glu
 35 40 45
 Glu Ser Phe Ile Thr Pro Leu Val Leu Tyr Cys Val Leu Ala Ala Thr
 50 55 60
 Pro Thr Ala Ile Ile Phe Ile Gly Glu Ile Ser Met Tyr Phe Ile Lys
 65 70 75 80
 Ser Thr Arg Glu Ser Leu Ile Ala Gln Glu Lys Thr Ile Leu Thr Gly
 85 90 95
 Glu Cys Cys Tyr Leu Asn Pro Leu Leu Arg Arg Ile Ile Arg Phe Thr
 100 105 110
 Gly Val Phe Ala Phe Gly Leu Phe Ala Thr Asp Ile Phe Val Asn Ala
 115 120 125
 Gly Gln Val Val Thr Gly His Leu Thr Pro Tyr Phe Leu Thr Val Cys
 130 135 140
 Lys Pro Asn Tyr Thr Ser Ala Asp Cys Gln Ala His His Gln Phe Ile
 145 150 155 160
 Asn Asn Gly Asn Ile Cys Thr Gly Asp Leu Gly Ser Asp Arg Lys Gly
 165 170 175
 Ser Glu Ile Leu Ser Leu Gln Thr Arg Cys Ser Glu His Leu Leu Arg
 180 185 190

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<210> 1372
<211> 99
<212> PRT
<213> Homo sapiens
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<210> 1373
<211> 69
<212> PRT
<213> Homo sapiens
```

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<210> 1374
<211> 296
<212> PRT
<213> Homo sapiens
```

<400> 1374

```

Met Arg Ser Lys Ile Met Ile His Ile His Ile Phe Leu Leu Ala Ser
 1           5           10           15
Phe Arg Phe Lys Glu His Val Gln Asn Asn Leu Pro Arg Asp Leu Leu
           20           25           30
Thr Gly Glu Gln Phe Ile Gln Leu Arg Arg Glu Leu Ala Ser Val Asn
           35           40           45
Gly His Ser Gly Asp Asp Gly Pro Pro Gly Asp Asp Leu Pro Ser Gly
           50           55           60
Ile Glu Asp Ile Thr Asp Pro Ala Lys Leu Ile Thr Glu Ile Glu Asn
           65           70           75           80
Met Arg His Arg Ile Ile Glu Ile His Gln Glu Met Phe Asn Tyr Asn
           85           90           95
Glu His Glu Val Ser Lys Arg Trp Thr Phe Glu Glu Gly Ile Lys Arg
           100          105          110
Pro Tyr Phe His Val Lys Pro Leu Glu Lys Ala Gln Leu Lys Asn Trp
           115          120          125
Lys Glu Tyr Leu Glu Phe Glu Ile Glu Asn Gly Thr His Glu Arg Val
           130          135          140
Val Val Leu Phe Glu Arg Cys Val Ile Ser Cys Ala Leu Tyr Glu Glu
           145          150          155          160
Phe Trp Ile Lys Tyr Ala Lys Tyr Met Glu Asn His Ser Ile Glu Gly
           165          170          175
Val Arg His Val Phe Ser Arg Ala Cys Thr Ile His Leu Pro Lys Lys
           180          185          190
Pro Met Val His Met Leu Trp Ala Ala Phe Glu Glu Gln Gln Gly Asn
           195          200          205
Ile Asn Glu Ala Arg Asn Ile Leu Lys Thr Phe Glu Glu Cys Val Leu
           210          215          220
Gly Leu Ala Met Val Arg Leu Arg Arg Val Ser Leu Glu Arg Arg His
           225          230          235          240
Gly Asn Leu Glu Glu Ala Glu His Leu Leu Gln Asp Ala Ile Lys Asn
           245          250          255
Ala Lys Ser Asn Asn Glu Ser Ser Phe Tyr Ala Val Lys Leu Ala Arg
           260          265          270
His Leu Phe Lys Ile Gln Lys Asn Leu Pro Lys Ser Arg Lys Val Leu
           275          280          285
Leu Glu Ala Ile Glu Arg Asp Lys
           290          295          296

```

<210> 1375

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1375

```

Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1           5           10           15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
           20           25           30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
           35           40           45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
           50           55           60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu *
           65           70           74

```

<210> 1376
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1376
 Met Cys Tyr Glu Trp Val Ile Thr Thr Val Gly Ser Trp Ala Leu Leu
 1 5 10 15
 Cys Gln Arg Thr Leu Trp Lys Pro His Arg Thr Tyr Gln Lys Leu Thr
 20 25 30
 Leu Asn Ser Cys Pro Thr Pro Ile Val Glu Gly Gly Leu Glu Ser Phe
 35 40 45
 Pro Ser Pro Asn Phe Pro Ser Cys Ile Ser Trp Ser *
 50 55 60

<210> 1377
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1377
 Met Trp Val Trp Val Thr Ala Ala His Leu Leu Cys Ser Leu Ala Ala
 1 5 10 15
 Ser Phe Val Lys Lys Lys Ser Leu Gly Lys Leu Arg Val Asp Val Cys
 20 25 30
 Arg Ser Pro Pro Pro Glu Gly Ser Arg Thr Gln Thr Ser Ser Ser Leu
 35 40 45
 Phe Tyr Arg Gly Gly Asn Gly Ala Ser Tyr Ala Asn Tyr Ile Leu His
 50 55 60
 His Thr Met Ala Leu Glu Gly Gln Arg Ser His Trp Ala Pro Cys Val
 65 70 75 80
 Ser Cys Pro Ala Gln Gly Leu Ala Leu Arg Arg Gly Cys Thr Thr Phe
 85 90 95
 Leu His Lys Asn Lys Gly Gly Thr Glu Ala Val Thr Val *
 100 105 109

<210> 1378
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1378
 Met Phe Ala Leu Gln Lys Met Arg Leu Cys Val Leu Trp Arg Val Leu
 1 5 10 15
 Glu Glu Gly Gly Ile Thr Arg Phe Gly Asp Ser His Ser Asp Ser Leu
 20 25 30
 Leu Phe Ser Val Thr Phe Arg Ile His Arg Asp Met Phe Cys *
 35 40 45 46

<210> 1379
 <211> 140
 <212> PRT
 <213> Homo sapiens

<400> 1379
 Met Arg His Pro Ser Pro Trp Pro Phe Leu Phe Phe Cys Phe Val Pro
 1 5 10 15
 Ala Thr Leu Arg Ser Phe Pro Ser Gly Leu Val Trp Pro Gly Cys Trp
 20 25 30
 Trp Glu Pro Arg Ala Ser Pro Ser Ser Leu Ala Pro Gly Met Lys Ser
 35 40 45
 Gln Leu Trp Ala Ala Ala Trp Arg Pro Gly Thr Ser Leu Gln Gly Met
 50 55 60
 Ala Gly Ile Leu Arg Gln Ala Ala Glu Ala Gly Pro Ala Gly Val Ala
 65 70 75 80
 Leu Ile Leu Ile Lys Gly Thr Gly Asn Glu Glu Pro Leu Gly Pro Leu
 85 90 95
 Pro Ser Arg Cys Leu Cys Pro Pro Pro Glu Glu Pro Arg Phe His Trp
 100 105 110
 Ala Leu Gly Lys Glu Pro Thr Gly Pro Gly Arg Pro Gln Pro Val Gln
 115 120 125
 His His Ile Glu Gly Pro His Pro Val Gly Phe Gly
 130 135 140

<210> 1380
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1380
 Met Gln Glu Pro Leu Thr Phe Leu Gln Leu Leu Arg Trp Gln Leu Phe
 1 5 10 15
 Pro Leu Pro Asp Ser Pro Thr Phe Ser Ala Phe Ile Leu Val Gly Leu
 20 25 30
 Cys Arg Met Leu Phe Ala Gly Arg Ile Ile Ser Gly Leu Thr Arg Val
 35 40 45
 Ile *
 49

<210> 1381
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1381
 Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met
 1 5 10 15
 Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr
 20 25 30

```

Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
      35              40              45
Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
      50              55              60
Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu *
      65              70              75              77

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<210> 1382
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1382
Met Leu Thr Thr Leu Leu Leu Leu Leu His Lys Arg Ile Phe Arg Gly
 1              5              10              15
Asn Phe His Ile Leu His Phe His Ile Cys Ile Gln Ile Lys Lys Gln
      20              25              30
Ile Pro Ile Leu Glu Asn Asp Leu Phe Lys Met Tyr Thr Val Ser Asn
      35              40              45
Lys Ala Lys Thr Arg Thr Trp Ser *
      50              55 56

```

```

<210> 1383
<211> 64
<212> PRT
<213> Homo sapiens

```

```

<400> 1383
Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
 1              5              10              15
Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
      20              25              30
Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
      35              40              45
Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu *
      50              55              60              63

```

```

<210> 1384
<211> 67
<212> PRT
<213> Homo sapiens

```

```

<400> 1384
Met Leu Ser Phe Val Pro Leu Leu Ser Ser Trp Leu Gly Thr Trp Ile
 1              5              10              15
Thr Asp Arg Gly Ala Ala Gly Ser Cys Gln Ala Glu Ala Pro Arg Leu
      20              25              30
Ala Gly Glu Thr Ala Gly Gln Arg Val Trp Glu Arg Gly Met Gln Arg
      35              40              45
Ala Ala Ala Val Gly Lys Ile Leu Asp Pro Lys Gly His Thr Ala Ser

```

50
Pro His *
65 66

55

60

<210> 1385
<211> 50
<212> PRT
<213> Homo sapiens

<400> 1385
Met Leu Val Leu Phe Val Ala Thr Trp Ser Asp Leu Gly Leu Cys Lys
1 5 10 15
Lys Arg Pro Lys Pro Gly Gly Trp Asn Thr Gly Gly Cys Arg Tyr Pro
20 25 30
Gly Leu Ala Cys Pro Leu Gly Arg Pro Pro Gly Gln Trp Gly Ala Thr
35 40 45
Val *
49

<210> 1386
<211> 123
<212> PRT
<213> Homo sapiens

<400> 1386
Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala
1 5 10 15
Tyr Ser Arg Gly Pro Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val
20 25 30
Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys His Gly Asp Leu Leu
35 40 45
Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn
50 55 60
Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu
65 70 75 80
Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro
85 90 95
Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val
100 105 110
Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe
115 120 123

<210> 1387
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1387
Met Pro Arg Leu Phe Ser Pro Leu Ile Leu Leu His Thr Leu Ser Leu
1 5 10 15

```

Lys Ser His Glu Thr Phe Gln Trp Ser Gln Phe Leu Tyr Gln Asn Thr
      20                      25                      30
Arg Asp Ala Cys Phe Thr Trp Thr Tyr Ile Phe Pro Arg Ile Thr Trp
      35                      40                      45
Ile Asn Glu Trp Cys Cys Phe Pro Val Val Gly Glu Lys Leu Gly Thr
      50                      55                      60                      64
*
```

```

<210> 1388
<211> 56
<212> PRT
<213> Homo sapiens
```

```

<400> 1388
Met Gly Leu Leu Asn Lys Tyr Ala Ser Val Ile Ile Tyr Leu Tyr Phe
  1      5                      10                      15
Ser Leu Val Lys Ser Glu Ser Leu Phe His Leu Met Tyr Leu Pro Ser
      20                      25                      30
Leu Phe Ile Gln Phe Phe Leu Gly Ile Phe Ser Leu Lys Thr His Cys
      35                      40                      45
Cys Thr Ser Lys Phe Asp Ser *
      50                      55
```

```

<210> 1389
<211> 76
<212> PRT
<213> Homo sapiens
```

```

<400> 1389
Met Arg Arg Arg Ala Leu Lys His Trp Val Ala Leu Cys Leu Thr Trp
  1      5                      10                      15
Thr Ala Gly Glu Ser Thr Gly Pro Trp Pro Ser Pro Glu Pro Ser Val
      20                      25                      30
Arg Ala Lys Glu Ala Asp Pro Ser Gly Arg Arg Ser Leu Gly Ser Pro
      35                      40                      45
Gly Leu Glu Cys Gly Pro Arg Leu Thr Arg Gly Ser Gly Arg Gln Cys
      50                      55                      60
Asp Gly Pro Arg Gly Ile Cys His Ala Leu Gly *
      65                      70                      75
```

```

<210> 1390
<211> 149
<212> PRT
<213> Homo sapiens
```

```

<400> 1390
Met Ala Ala Ser Pro Ala Arg Pro Ala Val Leu Ala Leu Thr Gly Leu
  1      5                      10                      15
Ala Leu Leu Leu Leu Leu Cys Trp Gly Pro Gly Gly Ile Ser Gly Asn
```

```

          20          25          30
Lys Leu Lys Leu Met Leu Gln Lys Arg Glu Ala Pro Val Pro Thr Lys
          35          40          45
Thr Lys Val Ala Val Asp Glu Asn Lys Ala Lys Glu Phe Leu Gly Ser
          50          55          60
Leu Lys Arg Gln Lys Arg Gln Leu Trp Asp Arg Thr Arg Pro Glu Val
          65          70          75          80
Gln Gln Trp Tyr Gln Gln Phe Leu Tyr Met Gly Phe Asp Glu Ala Lys
          85          90          95
Phe Glu Asp Asp Ile Thr Tyr Trp Leu Asn Arg Asp Arg Asn Gly His
          100          105          110
Glu Tyr Tyr Gly Asp Tyr Tyr Gln Arg His Tyr Asp Glu Asp Ser Ala
          115          120          125
Ile Gly Pro Arg Ser Pro Tyr Gly Phe Arg His Gly Ala Ser Val Asn
          130          135          140
Tyr Asp Asp Tyr *
          145          148

```

```

<210> 1391
<211> 125
<212> PRT
<213> Homo sapiens

```

```

<400> 1391
Met Val Met Gly Trp His Trp Pro Gln Gly Leu Gly Leu Ser Leu Ser
  1          5          10          15
Leu Cys Pro Ser Asp Leu Asp Gly Trp Val Ser Arg Glu Val Pro Leu
          20          25          30
Leu Asp Arg Pro Gln Ala Leu Pro Pro Cys Val Gln Ile Leu Ser Ala
          35          40          45
Pro Ala Ser Thr Ser Cys Pro Ser Ala Leu Ser Pro Trp His Asp Pro
          50          55          60
Gly Leu Pro Val Thr Ser Gln Asn His Phe Ala Trp Phe Pro Leu Gly
          65          70          75          80
Ser Lys Ala Cys Leu Gly Pro Ser Ile Asp Arg Glu Ala Val Lys Glu
          85          90          95
Ile Asn Ala Glu Glu Gly Val Arg Arg Gln Thr Gln Gly Pro Ile Lys
          100          105          110
Val Arg Lys Gln Ala Gly Cys Gly Gly Ser Cys Leu *
          115          120          124

```

```

<210> 1392
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1392
Met Ile Ile Gln Ile Cys Thr Ile Ser Arg Ile Glu Phe Ile Cys Leu
  1          5          10          15
Cys Val Cys Val Phe Phe Arg Val Ile Trp Leu Pro Val Glu Phe Tyr
          20          25          30
Leu Glu Thr Lys Ile Leu Lys Val Val Phe Val Ile Val Phe Val Pro
          35          40          45

```

Ile Ile Leu Pro Leu His Pro *
 50 55

<210> 1393
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1393
 Met Glu Ala Trp Lys Ala Leu Ile Gly Leu Phe Pro Leu Arg Ser Ser
 1 5 10 15
 Ala Ser Pro Phe Thr Tyr His Cys Trp Glu Pro Ala Gln Pro Ala His
 20 25 30
 Gln Glu Phe His Ser Thr Ile Ala Leu Arg Gly Arg Gly Gly Lys Pro
 35 40 45
 Gln Glu Glu Ser Ser Pro *
 50 54

<210> 1394
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1394
 Met Ser Leu Asn Pro Glu Phe Leu Trp Leu Lys Trp Phe Ser Leu Leu
 1 5 10 15
 Leu Arg Gly Arg Arg Asn Ser Cys Leu Ile Ala Leu Lys Gly Tyr His
 20 25 30
 Ser Val Met Ile Phe His Leu Pro Leu Ile Pro Ser Ser Val Thr Ser
 35 40 45
 Cys His *
 50

<210> 1395
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1395
 Met Pro Cys Phe Met Pro Asn Pro Gly Ala Val Leu Gly Leu Pro Pro
 1 5 10 15
 Trp Leu Leu Ser Thr Gln Arg Leu Thr His Thr Arg Ala Tyr Leu Asn
 20 25 30
 Trp Leu Ala Ser Asp Arg Trp Met Arg Arg His Trp Arg Thr Gly Glu
 35 40 45
 Ser Gln Val Glu Arg Ser Ser Arg Pro Trp Trp Glu Thr Gln His Leu
 50 55 60
 Ser Pro Ala Ser Leu Gly Arg Arg Pro Ala Pro Gly Leu Gln Glu His
 65 70 75 80
 Phe Leu Asp Thr Asp Gly Lys Val Ala Asp Ser Gly Leu Gln Met Gly

85 90 95
Phe Gly Leu Leu Ser Leu Pro Ser Ile
100 105

<210> 1396
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1396
Met Leu Cys Asn Leu Ala Leu Lys Leu Leu Asn Cys Val Ser Ala Trp
1 5 10 15
Asn Met Asn Ile Arg Leu Lys Cys Leu Lys Pro Lys Asn Val Ser
20 25 30
Lys Val Cys Ser Arg Gly Leu Tyr Phe Ile Tyr Val Met Asp Ser Leu
35 40 45 48
*

<210> 1397
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1397
Met Leu Ser Trp Val Phe Pro Gly Ser Val Phe Gly Leu Cys Leu Ser
1 5 10 15
Val Trp Val Phe Trp His Gln Ala Ser Leu Gly Arg Ala Ser Gly Cys
20 25 30
Ala Pro Ala Leu Arg Val Gly Leu Ile Pro Gly Cys Arg Gly Leu Arg
35 40 45
Ala Glu Leu Phe His Leu Glu Asp Lys Asp Gly Ser Ser Gly Leu Gly
50 55 60
Gly Gly Gly Gly Ala Gly His Asp Leu Ile Leu Arg Arg Ala Trp Cys
65 70 75 80
Trp Gly Leu Thr Asp Asp Gly Glu Ala Arg Val Gln Ala Leu Gly Met
85 90 95
Thr Pro Gly Ile Ala Phe Ser *
100 103

<210> 1398
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1398
Met Lys Pro Val Trp Val Ala Thr Leu Leu Trp Met Leu Leu Leu Val
1 5 10 15
Pro Arg Leu Gly Ala Ala Arg Lys Gly Ser Pro Glu Glu Ala Ser Phe
20 25 30

Tyr Tyr Gly Thr Phe Pro Leu Gly Gly His His Ser Ala Glu Gly Thr
 35 40 45
 Ala Arg Gln Pro Leu Pro Ile Leu Pro Val Leu Ala Pro Ala Pro Ala
 50 55 60
 His Arg His Pro Ser Arg Ala Gly Glu Gln Glu Gly Asn Arg Ile Leu
 65 70 75 80
 Gln *
 81

<210> 1399
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1399
 Met Gly Ala Val Leu Leu Val Cys Leu Gln Thr Ser Ile Ala Ala Arg
 1 5 10 15
 Asp Asp Leu Lys Asp Ala Val Asp Ser Gly Leu Leu Leu Ala Asn Ser
 20 25 30
 Leu Ser His Phe Val Pro Leu Val Val Arg Asn Tyr Leu Val His Cys
 35 40 45
 Asn Leu Leu Gln Thr Leu Lys Phe Leu Leu Gly Asn Cys Thr Ala Gly
 50 55 60
 Lys Ala Ser *
 65 67

<210> 1400
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1400
 Met Ala Val Ala Phe Val Leu Ser Leu Gly Val Ala Ala Leu Tyr Lys
 1 5 10 15
 Phe Arg Val Ala Asp Gln Arg Lys Lys Ala Tyr Ala Asp Phe Tyr Arg
 20 25 30
 Asn Tyr Asp Val Met Lys Asp Phe Glu Glu Met Arg Lys Ala Gly Ile
 35 40 45
 Phe Gln Ser Val Lys *
 50 53

<210> 1401
 <211> 232
 <212> PRT
 <213> Homo sapiens

<400> 1401
 Met Leu Phe Ala Phe Ile Ser Leu Leu Val Met Leu Pro Thr Trp Trp
 1 5 10 15
 Ile Val Ser Ser Trp Leu Val Trp Gly Val Ile Leu Phe Val Tyr Leu


```

      20      25      30
Val Ile Arg Ala Leu Arg Leu Trp Arg Thr Ala Lys Leu Gln Val Thr
      35      40      45
Leu Lys Lys Tyr Ser Val His Leu Glu Asp Met Ala Thr Asn Ser Arg
      50      55      60
Ala Phe Thr Asn Leu Val Arg Lys Ala Leu Arg Leu Ile Gln Glu Thr
      65      70      75      80
Glu Val Ile Ser Arg Gly Phe Thr Leu Leu Leu Asp Arg Val Ser Ala
      85      90      95
Ala Cys Pro Phe Asn Lys Ala Gly Gln His Pro Ser Gln His Leu Ile
      100      105      110
Gly Leu Arg Lys Ala Val Tyr Arg Thr Leu Arg Ala Ser Phe Gln Ala
      115      120      125
Ala Arg Leu Ala Thr Leu Tyr Met Leu Lys Asn Tyr Pro Leu Asn Ser
      130      135      140
Glu Ser Asp Asn Val Thr Asn Tyr Ile Cys Val Val Pro Phe Lys Glu
      145      150      155      160
Leu Gly Leu Gly Leu Ser Glu Glu Gln Ile Ser Glu Glu Glu Ala His
      165      170      175
Lys Leu Tyr Arg Trp Leu Gln Pro Ala Cys Ile Glu Gly Phe Val Pro
      180      185      190
Thr Leu Gly Gly Thr Glu Phe Arg Val Leu Gln Thr Val Ser Pro Ile
      195      200      205
Thr Phe Tyr Ser Gln Phe Thr Ser Trp Ala Leu Thr Tyr Ser Ser Thr
      210      215      220
Ser Ala Ser Ser Tyr Leu Ile *
      225      230 231

```

<210> 1402
 <211> 48
 <212> PRT
 <213> Homo sapiens

```

      <400> 1402
Met Ala Pro Ala Arg Pro Trp Trp Leu Thr Pro Val Ile Pro Ala Leu
      1      5      10      15
Trp Glu Ala Glu Glu Asp Gly Ser Arg Gly Gln Glu Phe Lys Thr Ser
      20      25      30
Leu Ala Ser Met Val Lys Pro Arg Leu Tyr Tyr Lys Tyr Lys Asn *
      35      40      45      47

```

<210> 1403
 <211> 53
 <212> PRT
 <213> Homo sapiens

```

      <400> 1403
Met Leu Trp Arg Leu Ile Ile Ile Leu Cys Glu Ala Leu Gln Arg Lys
      1      5      10      15
Ser Arg Leu Leu Ala Asp Cys Asp His Phe Ser Phe Pro Asn Arg Tyr
      20      25      30
Glu Arg Lys Leu Leu Leu Asp Phe Thr Val Arg Ile Trp Ile Gln Thr
      35      40      45

```

Tyr Cys Pro His *

50 52

<210> 1404

<211> 90

<212> PRT

<213> Homo sapiens

<400> 1404

Met	Arg	Val	Phe	Cys	Val	Gly	Leu	Leu	Leu	Phe	Ser	Val	Thr	Trp	Ala
1				5					10					15	
Ala	Pro	Thr	Phe	Gln	Pro	Gln	Thr	Glu	Lys	Thr	Lys	Gln	Ser	Cys	Val
			20					25				30			
Glu	Glu	Gln	Arg	Gln	Glu	Glu	Lys	Asn	Lys	Asp	Asn	Ile	Gly	Phe	His
		35					40					45			
His	Leu	Gly	Lys	Arg	Ile	Asn	Gln	Glu	Leu	Ser	Ser	Lys	Glu	Asn	Ile
	50					55					60				
Val	Gln	Glu	Arg	Lys	Lys	Asp	Leu	Ser	Leu	Ser	Glu	Ala	Ser	Glu	Asn
65					70					75					80
Lys	Gly	Ser	Ser	Lys	Ser	Gln	Asn	Tyr	Phe						
				85					90						

<210> 1405

<211> 477

<212> PRT

<213> Homo sapiens

<400> 1405

Met	Ala	Gly	Arg	Gly	Gly	Ser	Ala	Leu	Leu	Ala	Leu	Cys	Gly	Ala	Leu
1				5					10					15	
Ala	Ala	Cys	Gly	Trp	Leu	Leu	Gly	Ala	Glu	Ala	Gln	Glu	Pro	Gly	Ala
			20					25				30			
Pro	Ala	Ala	Gly	Met	Arg	Arg	Arg	Arg	Arg	Leu	Gln	Gln	Glu	Asp	Gly
		35					40					45			
Ile	Ser	Phe	Glu	Tyr	His	Arg	Tyr	Pro	Glu	Leu	Arg	Glu	Ala	Leu	Val
	50					55					60				
Ser	Val	Trp	Leu	Gln	Cys	Thr	Ala	Ile	Ser	Arg	Ile	Tyr	Thr	Val	Gly
65					70					75					80
Arg	Ser	Phe	Glu	Gly	Arg	Glu	Leu	Leu	Val	Ile	Glu	Leu	Ser	Asp	Asn
				85					90					95	
Pro	Gly	Val	His	Glu	Pro	Gly	Glu	Pro	Glu	Phe	Lys	Tyr	Ile	Gly	Asn
			100					105					110		
Met	His	Gly	Asn	Glu	Ala	Val	Gly	Arg	Glu	Leu	Leu	Ile	Phe	Leu	Ala
		115					120					125			
Gln	Tyr	Leu	Cys	Asn	Glu	Tyr	Gln	Lys	Gly	Asn	Glu	Thr	Ile	Val	Asn
	130					135					140				
Leu	Ile	His	Ser	Thr	Arg	Ile	His	Ile	Met	Pro	Ser	Leu	Asn	Pro	Asp
145					150					155					160
Gly	Phe	Glu	Lys	Ala	Ala	Ser	Gln	Pro	Gly	Glu	Leu	Lys	Asp	Trp	Phe
			165						170				175		
Val	Gly	Arg	Ser	Asn	Ala	Gln	Gly	Ile	Asp	Leu	Asn	Arg	Asn	Phe	Pro
			180					185					190		
Asp	Leu	Asp	Arg	Ile	Val	Tyr	Val	Asn	Glu	Lys	Glu	Gly	Gly	Pro	Asn

```

      195              200              205
Asn His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys
  210              215              220
Leu Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro
 225              230              235              240
Phe Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr
      245              250              255
Pro Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Ser
      260              265              270
Pro Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe
      275              280              285
Asn Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp
  290              295              300
Asp Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr
 305              310              315              320
Ser Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys
      325              330              335
Phe Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu
      340              345              350
Thr Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr
      355              360              365
Leu Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln
  370              375              380
Gly Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His
 385              390              395              400
Asp Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro
      405              410              415
Gly Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr
      420              425              430
Lys Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu
      435              440              445
Leu Glu Ser Phe Ser Glu Arg Lys Glu Glu Glu Lys Glu Glu Leu Met
  450              455              460
Glu Trp Trp Lys Met Met Ser Glu Thr Leu Asn Phe *
 465              470              475 476

```

```

<210> 1406
<211> 55
<212> PRT
<213> Homo sapiens

```

```

      <400> 1406
Met Phe Ile Gly Ile Trp Val Ser Leu Tyr Gln Val Leu Trp Leu Lys
  1              5              10              15
Glu Leu Leu Trp Gly His Tyr Ile Phe Trp Val Ser Arg Lys Met Phe
      20              25              30
Val Tyr Gly Gly Val Gly Gly Lys Thr Ala Asn Ile Cys Arg Lys Gly
      35              40              45
Arg Ile Ile Lys Lys Val *
  50              54

```

```

<210> 1407
<211> 66
<212> PRT

```

<213> Homo sapiens

<400> 1407

```

Met Leu Leu Gly Val Arg Ala Val Pro Leu Cys Ser Ala Trp Gln Gly
 1           5           10           15
Ala Val Gly Leu Val Ser Leu Thr Ile Ser Ile Cys Lys His Gly Leu
           20           25           30
Ser Phe Gln Gln Asn Leu Val Pro Gly Lys Ser Asn Val Pro Lys Ala
           35           40           45
Ser Asp Met Pro Arg Cys Pro Pro Val Asp Ala Ala Ala Asn Ser Arg
           50           55           60
Ser Met
65 66

```

<210> 1408

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1408

```

Met Leu Leu Lys Phe Leu Cys Glu Cys Met Pro Ser Leu Leu Leu Ser
 1           5           10           15
Glu Phe Leu Asp Ser Pro Arg Ser Gly Ile Asp Gly Ser Asn Gly Asn
           20           25           30
Ser Met Phe Asn Phe Val Lys Asn Cys His Phe Pro Thr Ala Ala Ala
           35           40           45
Pro Phe Pro Thr Pro Thr Ser Arg Val *
           50           55           57

```

<210> 1409

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1409

```

Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Leu Asn Val Gly Gly Thr
 1           5           10           15
Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
           20           25           30
Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
           35           40           45
Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
           50           55           60
Gln Gly Lys Gly Thr Pro Asp *
65           70 71

```

<210> 1410

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1410
 Met Arg Phe Leu Leu Leu Trp Phe Ile Leu Arg Gly Arg Gln Leu Val
 1 5 10 15
 Pro Leu Arg Pro Arg Arg Ser Pro Leu Pro Asp Thr Asn Ala Pro Leu
 20 25 30
 Pro Gly Leu Gly Gly Gly Asp Gly Ser Thr Gln Thr Pro Phe Ala Gln
 35 40 45
 Ser Arg Arg Leu *
 50 52

<210> 1411
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1411
 Met Ala Ser Gln Ser Met Cys Phe Leu Trp Leu Ala Pro Val Thr Trp
 1 5 10 15
 Cys Val Met Phe Ser Ser Arg Thr Cys Tyr Ser Pro Cys Gly Asn Phe
 20 25 30
 Ser Thr Ala Pro Gly Arg Val Ile Phe His Ser Trp Asp Arg Ala Gln
 35 40 45
 Phe Val Tyr Ser Phe Leu Ser Arg Trp Arg Leu Gly Leu Phe Pro Pro
 50 55 60
 Leu Ala Ser Val Asn Gly Asp Ala Val Ile Met Gly Val Pro Val Phe
 65 70 75 80
 Val *
 81

<210> 1412
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1412
 Met Phe Leu Leu Leu Phe Cys Leu Met Phe Asp Phe Thr Lys Val Phe
 1 5 10 15
 Phe Ile Leu Leu Leu His Ile Phe Cys Leu Ser Thr Cys Leu Phe Leu
 20 25 30
 Gly Leu His Ile Cys Ala Ser Phe His Ala Arg Ala Leu Leu Glu Thr
 35 40 45
 Ala Leu Ile Leu Leu Arg Met Lys Ile Ala Gly Phe Gln Val Ile Leu
 50 55 60
 Phe Pro Gln Asp Phe Val Leu *
 65 70 71

<210> 1413
 <211> 59
 <212> PRT

<213> Homo sapiens

<400> 1413

```

Met Met Thr Ile Lys Glu Phe Thr Leu Leu Leu Val Ser Leu Gln Phe
 1           5           10           15
Ser Thr Phe Pro Ser Lys Lys Phe Leu Leu Glu Thr His Phe Leu Lys
           20           25           30
Asn Ser Glu Asn Trp Leu Gly Val Ala His Ala Cys Ser Leu Ser
           35           40           45
Thr Leu Gly Trp Pro Arg Arg Arg Thr Ala *
           50           55           58

```

<210> 1414

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1414

```

Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met
 1           5           10           15
Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr
           20           25           30
Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
           35           40           45
Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
           50           55           60
Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu *
           65           70           75           77

```

<210> 1415

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1415

```

Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser Ala Leu
 1           5           10           15
Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln Gln Phe
           20           25           30
Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val Lys Lys
           35           40           45
Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu Leu Val
           50           55           60
Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val Arg Asn
           65           70           75           80
Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp Leu Tyr
           85           90           95
Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val Leu Ile
           100          105          110
Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala Leu Met
           115          120          125
Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly Leu Asn

```

```

      130              135              140
Val Leu Asp Ala Asn Leu Trp Leu Glu Arg Arg Arg Leu Gly Phe Ser
145              150              155              160
Gly Trp Ser Asn Arg Phe Phe Pro Leu Pro *
              165              170

```

```

<210> 1416
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1416
Met Leu Thr Arg Leu Val Leu Ser Ala His Leu Ser Ser Thr Thr Phe
 1              5              10              15
Pro Pro Trp Thr His Ala Ala Ile Ser Trp Glu Leu Asp Asn Val Leu
              20              25              30
Met Pro Ser Pro Arg Ile Trp Pro Gln Val Thr Pro Thr Ala Gly Gln
              35              40              45
Asp Val His Ala Ile Val Thr Arg Thr Cys Glu Ser Val Leu Ser Ser
              50              55              60
Val Val Tyr Thr His Gly Cys Gly Cys Val Arg Cys *
 65              70              75 76

```

```

<210> 1417
<211> 249
<212> PRT
<213> Homo sapiens

```

```

<400> 1417
Met Glu Lys Ile Pro Glu Ile Gly Lys Phe Gly Glu Lys Ala Pro Pro
 1              5              10              15
Ala Pro Ser His Val Trp Arg Pro Ala Ala Leu Phe Leu Thr Leu Leu
              20              25              30
Cys Leu Leu Leu Leu Ile Gly Leu Gly Val Leu Ala Ser Met Phe His
              35              40              45
Val Thr Leu Lys Ile Glu Met Lys Lys Met Asn Lys Leu Gln Asn Ile
              50              55              60
Ser Glu Glu Leu Gln Arg Asn Ile Ser Leu Gln Leu Met Ser Asn Met
 65              70              75              80
Asn Ile Ser Asn Lys Ile Arg Asn Leu Ser Thr Thr Leu Gln Thr Ile
              85              90              95
Ala Thr Lys Leu Cys Arg Glu Leu Tyr Ser Lys Glu Gln Glu His Lys
              100              105              110
Cys Lys Pro Cys Pro Arg Arg Trp Ile Trp His Lys Asp Ser Cys Tyr
              115              120              125
Phe Leu Ser Asp Asp Val Gln Thr Trp Gln Glu Ser Lys Met Ala Cys
              130              135              140
Ala Ala Gln Asn Ala Ser Leu Leu Lys Ile Asn Asn Lys Asn Ala Leu
145              150              155              160
Glu Phe Ile Lys Ser Gln Ser Arg Ser Tyr Asp Tyr Trp Leu Gly Leu
              165              170              175
Ser Pro Glu Glu Asp Ser Thr Arg Gly Met Arg Val Asp Asn Ile Ile
              180              185              190

```

```

Asn Ser Ser Ala Trp Val Ile Arg Asn Ala Pro Asp Leu Asn Asn Met
      195                200                205
Tyr Cys Gly Tyr Ile Asn Arg Leu Tyr Val Gln Tyr Tyr His Cys Thr
      210                215                220
Tyr Lys Gln Arg Met Ile Cys Glu Lys Met Ala Asn Pro Val Gln Leu
225                230                235                240
Gly Ser Thr Tyr Phe Arg Glu Ala *
                245                248

```

<210> 1418
 <211> 65
 <212> PRT
 <213> Homo sapiens

```

<400> 1418
Met Gly Leu Lys Asn Val Phe Leu Pro Val Phe Leu Pro Phe Leu Leu
 1                5                10                15
Tyr Ser Glu Phe Leu Ser Leu Pro Pro Ser Leu Ser Ser Ser Leu Leu
      20                25                30
Pro Phe Leu Pro Phe Ser Leu Pro Gly His Phe Ser Asn Leu His Gln
      35                40                45
Arg Tyr Leu Lys Cys Trp Tyr Leu Arg Ile Ser Val Thr Pro Leu Ile
 50                55                60                64
*
```

<210> 1419
 <211> 468
 <212> PRT
 <213> Homo sapiens

```

<400> 1419
Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
 1                5                10                15
Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
      20                25                30
Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
      35                40                45
Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50                55                60
Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65                70                75                80
Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
      85                90                95
Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
      100                105                110
Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
      115                120                125
Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
 130                135                140
Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
 145                150                155                160
Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln

```


				165					170					175			
Gly	Thr	Pro	Pro	Met	Ile	Ser	Trp	Met	Gly	Thr	Ser	Val	Ser	Pro	Leu		
			180					185					190				
His	Pro	Ser	Thr	Thr	Arg	Ser	Ser	Val	Leu	Thr	Leu	Ile	Pro	Gln	Pro		
		195					200					205					
Gln	His	His	Gly	Thr	Ser	Leu	Thr	Cys	Gln	Val	Thr	Leu	Pro	Gly	Ala		
	210					215					220						
Gly	Val	Thr	Thr	Asn	Arg	Thr	Ile	Gln	Leu	Asn	Val	Ser	Tyr	Pro	Pro		
225					230					235					240		
Gln	Asn	Leu	Thr	Val	Thr	Val	Phe	Gln	Gly	Glu	Gly	Thr	Ala	Ser	Thr		
			245					250						255			
Ala	Leu	Gly	Asn	Ser	Ser	Ser	Leu	Ser	Val	Leu	Glu	Gly	Gln	Ser	Leu		
		260						265					270				
Arg	Leu	Val	Cys	Ala	Val	Asp	Ser	Asn	Pro	Pro	Ala	Arg	Leu	Ser	Trp		
	275					280						285					
Thr	Trp	Arg	Ser	Leu	Thr	Leu	Tyr	Pro	Ser	Gln	Pro	Ser	Asn	Pro	Leu		
	290				295					300							
Val	Leu	Glu	Leu	Gln	Val	His	Leu	Gly	Asp	Glu	Gly	Glu	Phe	Thr	Cys		
305				310						315					320		
Arg	Ala	Gln	Asn	Ser	Leu	Gly	Ser	Gln	His	Val	Ser	Leu	Asn	Leu	Ser		
			325					330					335				
Leu	Gln	Gln	Glu	Tyr	Thr	Gly	Lys	Met	Arg	Pro	Val	Ser	Gly	Val	Leu		
		340				345						350					
Leu	Gly	Ala	Val	Gly	Gly	Ala	Gly	Ala	Thr	Ala	Leu	Val	Phe	Leu	Ser		
	355					360					365						
Phe	Cys	Val	Ile	Phe	Ile	Val	Val	Arg	Ser	Cys	Arg	Lys	Lys	Ser	Ala		
	370				375					380							
Arg	Pro	Ala	Ala	Asp	Val	Gly	Asp	Ile	Gly	Met	Lys	Asp	Ala	Asn	Thr		
385				390					395						400		
Ile	Arg	Gly	Ser	Ala	Ser	Gln	Gly	Asn	Leu	Thr	Glu	Ser	Trp	Ala	Asp		
			405					410						415			
Asp	Asn	Pro	Arg	His	His	Gly	Leu	Ala	Ala	His	Ser	Ser	Gly	Glu	Glu		
		420				425							430				
Arg	Glu	Ile	Gln	Tyr	Ala	Pro	Leu	Ser	Phe	His	Lys	Gly	Glu	Pro	Gln		
	435					440						445					
Asp	Leu	Ser	Gly	Gln	Glu	Ala	Thr	Asn	Asn	Glu	Tyr	Ser	Glu	Ile	Lys		
	450				455						460						
Ile	Pro	Lys	*														
465		467															

<210> 1420

<211> 150

<212> PRT

<213> Homo sapiens

<400> 1420

Met	Ile	Arg	Cys	Leu	Ala	Gln	Pro	Ala	Ala	Val	Leu	Ser	Ser	Leu	Gly		
1				5					10					15			
Leu	Ala	Gln	Val	Leu	Gly	Asp	Ser	Gly	Arg	Asp	Glu	Gln	Val	Leu	Leu		
		20						25					30				
Arg	Arg	Ser	Phe	Arg	Ala	Glu	Gly	Cys	Val	Leu	Cys	Leu	Cys	Thr	Trp		
		35				40						45					
Gly	Thr	Ala	Val	Pro	Trp	His	Lys	Val	Glu	Gly	Ser	Gly	Gly	Pro	Cys		
	50				55						60						
Arg	Ser	Ala	Ala	Pro	Leu	Pro	Ala	Ser	Ala	Pro	Phe	Ser	Ile	Asp	Gly		
65					70					75					80		

Arg Ala Val Pro Trp Val Phe Ser Ala Leu Gln Ala Glu Val Gly Val
 85 90 95
 Leu Gly Glu Gln Met Arg Asp Gly Arg Gly Leu Cys Gly Ser His Pro
 100 105 110
 Trp Val Leu Gln Leu Ser Trp Pro Gly Val Phe Pro Gln Cys Trp Leu
 115 120 125
 Cys Pro Arg Leu Val Cys Leu Ala Lys Gln Asn Trp Gln Cys Pro Phe
 130 135 140
 Glu Thr Pro Arg Lys *
 145 149

<210> 1421
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1421
 Met Tyr Val Phe Leu Leu Cys Pro Ala Cys Gly Arg Leu Met Gly Ser
 1 5 10 15
 Thr Tyr Met Arg Leu Leu Pro Gln Ser Glu Pro Ala Leu His Asn Arg
 20 25 30
 Ile Leu Arg Gln Thr Glu Pro Leu Leu Tyr Phe Lys Arg Gly Lys Gln
 35 40 45
 Gln Gly Leu Phe Tyr Ala Ser Phe Pro Ala Val His Arg Met Asp Ser
 50 55 60
 Leu Leu Arg Arg Thr Val Ile Leu Tyr Lys Arg Thr Asn Thr Val
 65 70 75 80
 Gly Val Ser Leu Phe Gln Asn Ala *
 85 88

<210> 1422
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1422
 Met Met Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly
 1 5 10 15
 Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met
 20 25 30
 Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr
 35 40 45
 Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met
 50 55 60
 Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp
 65 70 75 80
 Ser Arg *
 82

<210> 1423
 <211> 54

<212> PRT
 <213> Homo sapiens

<400> 1423
 Met Ile Leu Phe Pro Leu Cys Pro Ser Ile Leu Ser Leu Lys Pro Lys
 1 5 10 15
 Lys Lys Glu Ala Leu Pro Ser Leu Ser Val Met Gly Thr Val Phe Leu
 20 25 30
 Leu Val Ser Cys Ser Leu Pro Ser Pro Ala Ala Cys Gly Arg Asn Ala
 35 40 45
 Ala Thr Ala Gln His *
 50 53

<210> 1424
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1424
 Met Cys Phe Ser Cys Leu Pro Leu Gln Cys Leu Ala Met Gly His Lys
 1 5 10 15
 His Tyr Pro Ala Val Gly Arg Leu Ala Lys Arg Ser Gln Leu Ala Ser
 20 25 30
 Pro Ala Ser Ser Arg Glu Trp Asn His Gly Ser Asn Thr Leu Leu Arg
 35 40 45
 Lys Gln Lys Leu Tyr Gly His Ile Phe His Leu Leu Ser Pro Arg Asn
 50 55 60
 His Met Tyr Cys Asp Pro Ala His *
 65 70 72

<210> 1425
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 1425
 Met Ala Cys Tyr Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu
 1 5 10 15
 Ile Ala Val Phe Asn Asn Thr Phe Phe Glu Val Lys Ser Ile Ser Asn
 20 25 30
 Gln Val Trp Lys Phe Gln Arg Tyr Gln Leu Ile Met Thr Phe His Glu
 35 40 45
 Arg Pro Val Leu Pro Pro Pro Leu Ile Ile Phe Ser His Met Thr Met
 50 55 60
 Ile Phe Gln His Leu Cys Cys Arg Trp Arg Lys His Glu Ser Asp Pro
 65 70 75 80
 Asp Glu Arg Asp Tyr Gly Leu Lys Leu Phe Ile Thr Asp Asp Glu Leu
 85 90 95
 Lys Lys Val His Asp Phe Glu Glu Gln Cys Ile Glu Glu Tyr Phe Arg
 100 105 110
 Glu Lys Asp Asp Arg Phe Asn Ser Ser Asn Asp Glu Arg Ile Arg Val
 115 120 125

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Thr Ser Glu Arg Val Glu Asn Met Ser Met Arg Leu Glu Glu Val Asn
 130          135          140
Glu Arg Glu His Ser Met Lys Ala Ser Leu Gln Thr Val Asp Ile Arg
145          150          155          160
Leu Ala Gln Leu Glu Asp Leu Ile Gly Arg Met Ala Thr Ala Leu Glu
          165          170          175
Arg Leu Thr Gly Leu Glu Arg Ala Glu Ser Asn Lys Ile Arg Ser Arg
          180          185          190
Thr Ser Ser Asp Cys Thr Asp Ala Arg Leu His Trp Pro Val Arg Ala
          195          200          205
Ala Leu Thr Ser Gln Glu Arg Glu His Leu Ser Ala Pro Lys Arg Gly
          210          215          220
Leu Glu Pro Trp Gln Asn Ile Leu Phe Ile Gln Tyr Lys Pro Ala Ala
225          230          235          240
Ser Ser Ser Thr *
          244

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<210> 1426

<211> 520

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(520)

<223> Xaa = any amino acid or nothing

<400> 1426

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Met Asp Ile Leu Leu Leu Leu Leu Phe Phe Met Ile Ile Phe Ala Ile
 1          5          10          15
Leu Gly Phe Tyr Leu Phe Ser Pro Asn Pro Ser Asp Pro Tyr Phe Ser
          20          25          30
Thr Leu Glu Asn Ser Ile Val Ser Leu Phe Val Leu Leu Thr Thr Ala
          35          40          45
Asn Phe Pro Asp Val Met Met Pro Ser Tyr Ser Arg Asn Pro Trp Ser
          50          55          60
Cys Val Phe Phe Ile Val Tyr Leu Ser Ile Glu Leu Tyr Phe Ile Met
          65          70          75          80
Asn Leu Leu Leu Ala Val Val Phe Asp Thr Phe Asn Asp Ile Glu Lys
          85          90          95
Arg Lys Phe Lys Ser Leu Leu Leu His Lys Arg Thr Ala Ile Gln His
          100          105          110
Ala Tyr Arg Leu Leu Ile Ser Gln Arg Arg Pro Ala Gly Ile Ser Tyr
          115          120          125
Arg Gln Phe Glu Gly Leu Met Arg Phe Tyr Lys Pro Arg Met Ser Ala
          130          135          140
Arg Glu Arg Tyr Leu Thr Phe Lys Ala Leu Asn Gln Asn Asn Thr Pro
145          150          155          160
Leu Leu Ser Leu Lys Asp Phe Tyr Asp Ile Tyr Glu Val Ala Ala Leu
          165          170          175
Lys Trp Lys Ala Thr Lys Asn Arg Glu His Trp Val Asp Glu Leu Pro
          180          185          190
Arg Thr Ala Leu Leu Ile Phe Lys Gly Ile Asn Ile Leu Val Lys Ala
          195          200          205
Lys Ala Phe Gln Tyr Phe Met Tyr Leu Val Val Ala Val Asn Gly Val
          210          215          220
Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn Phe Phe Ser

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225					230					235				240
Lys	His	Val	Pro	Trp	Ser	Tyr	Leu	Val	Phe	Leu	Thr	Ile	Tyr	Gly
					245				250					255
Glu	Leu	Phe	Leu	Lys	Val	Ala	Gly	Leu	Gly	Pro	Val	Glu	Tyr	Leu
			260					265					270	
Ser	Gly	Trp	Asn	Leu	Phe	Asp	Phe	Ser	Val	Thr	Val	Phe	Ala	Phe
		275				280						285		
Gly	Leu	Leu	Ala	Leu	Ala	Leu	Asn	Met	Glu	Pro	Phe	Tyr	Phe	Ile
	290					295					300			
Val	Leu	Arg	Pro	Leu	Gln	Leu	Leu	Arg	Leu	Phe	Lys	Leu	Lys	Glu
305					310					315				320
Tyr	Arg	Asn	Val	Leu	Asp	Thr	Met	Phe	Glu	Leu	Leu	Pro	Arg	Met
			325						330					335
Ser	Leu	Gly	Leu	Thr	Leu	Leu	Ile	Phe	Tyr	Tyr	Ser	Phe	Ala	Ile
			340					345					350	
Gly	Met	Glu	Phe	Phe	Cys	Gly	Ile	Val	Phe	Pro	Asn	Cys	Cys	Asn
	355					360						365		
Ser	Thr	Val	Ala	Asp	Ala	Tyr	Arg	Trp	Arg	Asn	His	Thr	Val	Gly
	370					375					380			
Arg	Thr	Val	Val	Glu	Glu	Gly	Tyr	Tyr	Tyr	Leu	Asn	Asn	Phe	Asp
385					390					395				400
Ile	Leu	Asn	Ser	Phe	Val	Thr	Leu	Phe	Glu	Leu	Thr	Val	Val	Asn
			405						410					415
Trp	Tyr	Ile	Ile	Met	Glu	Gly	Val	Thr	Ser	Gln	Thr	Ser	His	Trp
			420					425					430	
Arg	Leu	Tyr	Phe	Met	Thr	Phe	Tyr	Ile	Ala	Thr	Met	Val	Val	Met
	435					440						445		
Ile	Ile	Val	Ala	Phe	Ile	Leu	Glu	Ala	Phe	Val	Phe	Arg	Met	Asn
	450					455					460			
Ser	Arg	Lys	Asn	Gln	Asp	Ser	Glu	Val	Asp	Gly	Gly	Ile	Thr	Leu
465					470					475				480
Lys	Glu	Ile	Ser	Lys	Glu	Glu	Leu	Val	Ala	Val	Leu	Glu	Leu	Tyr
			485						490					495
Glu	Ala	Arg	Xaa	Ala	Ser	Ser	Asp	Val	Thr	Arg	Leu	Leu	Glu	Thr
			500					505						510
Ser	Gln	Met	Glu	Arg	Tyr	Gln	Gln							
	515					520								

<210> 1427
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1427															
Met	Ser	Pro	Gln	His	Leu	Leu	Leu	Thr	Leu	Pro	Leu	Pro	Leu	Arg	Ser
1				5					10					15	
Pro	Ile	Leu	Phe	Ser	His	Thr	Ala	Gln	Leu	Leu	Val	Leu	Thr	Arg	Ile
			20					25					30		
Ala	Phe	Arg	Ala	Cys	Glu	Leu	Phe	Phe	Phe	Val	Met	Val	Ser	Leu	Cys
		35				40					45				
Cys	Pro	Gly	Ile	His	Ser	Phe	Ile	Ala	Thr	Ile	Thr	Tyr	Glu	Arg	Asn
	50				55					60					
Ala	Phe	Gln	Ser	Ile	Ser	Ser	Val	Gln	Gln	Gln	His	Leu	His	Phe	Gly
65				70				75						80	
Cys	Ala	Leu	Ser	Pro	Pro	Ala	Pro	Arg	Glu	Ser	Phe	Ser	Pro	Cys	Leu
				85					90					95	

Thr Thr His Arg Leu Pro Ser Cys Phe *
 100 105

<210> 1428
 <211> 841
 <212> PRT
 <213> Homo sapiens

<400> 1428
 Met Ala Leu Ala Ser Ala Ala Pro Gly Ser Ile Phe Cys Lys Gln Leu
 1 5 10 15
 Leu Phe Ser Leu Leu Val Leu Thr Leu Leu Cys Asp Ala Cys Gln Lys
 20 25 30
 Val Tyr Leu Arg Val Pro Ser His Leu Gln Ala Glu Thr Leu Val Gly
 35 40 45
 Lys Val Asn Leu Glu Glu Cys Leu Lys Ser Ala Ser Leu Ile Arg Ser
 50 55 60
 Ser Asp Pro Ala Phe Arg Ile Leu Glu Asp Gly Ser Ile Tyr Thr Thr
 65 70 75 80
 His Asp Leu Ile Leu Ser Ser Glu Arg Lys Ser Phe Ser Ile Phe Leu
 85 90 95
 Ser Asp Gly Gln Arg Arg Glu Gln Gln Glu Ile Lys Val Val Leu Ser
 100 105 110
 Ala Arg Glu Asn Lys Ser Pro Lys Lys Arg His Thr Lys Asp Thr Ala
 115 120 125
 Leu Lys Arg Ser Lys Arg Arg Trp Ala Pro Ile Pro Ala Ser Leu Met
 130 135 140
 Glu Asn Ser Leu Gly Pro Phe Pro Gln His Val Gln Gln Ile Gln Ser
 145 150 155 160
 Asp Ala Ala Gln Asn Tyr Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly
 165 170 175
 Val Asp Lys Glu Pro Phe Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly
 180 185 190
 Asp Ile Phe Cys Thr Arg Ser Ile Asp Arg Glu Lys Tyr Glu Gln Phe
 195 200 205
 Ala Leu Tyr Gly Tyr Ala Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr
 210 215 220
 Pro Leu Pro Leu Ile Ile Lys Ile Glu Asp Asp Asn Asp Asn Ala Pro
 225 230 235 240
 Tyr Phe Glu His Arg Val Thr Ile Phe Thr Val Pro Glu Asn Cys Arg
 245 250 255
 Ser Gly Thr Ser Val Gly Lys Val Thr Ala Thr Asp Leu Asp Glu Pro
 260 265 270
 Asp Thr Leu His Thr Arg Leu Lys Tyr Lys Ile Leu Gln Gln Ile Pro
 275 280 285
 Asp His Pro Lys His Phe Ser Ile His Pro Asp Thr Gly Val Ile Thr
 290 295 300
 Thr Thr Thr Pro Phe Leu Asp Arg Glu Lys Cys Asp Thr Tyr Gln Leu
 305 310 315 320
 Ile Met Glu Val Arg Asp Met Gly Gly Gln Pro Phe Gly Leu Phe Asn
 325 330 335
 Thr Gly Thr Ile Thr Ile Ser Leu Glu Asp Glu Asn Asp Asn Pro Pro
 340 345 350
 Ser Phe Thr Glu Thr Ser Tyr Val Thr Glu Val Glu Glu Asn Arg Ile
 355 360 365
 Asp Val Glu Ile Leu Arg Met Lys Val Gln Asp Gln Asp Leu Pro Asn

	370					375					380				
Thr	Pro	His	Ser	Lys	Ala	Val	Tyr	Lys	Ile	Leu	Gln	Gly	Asn	Glu	Asn
385					390					395					400
Gly	Asn	Phe	Ile	Ile	Ser	Thr	Asp	Pro	Asn	Thr	Asn	Glu	Gly	Val	Leu
				405					410					415	
Cys	Val	Val	Lys	Pro	Leu	Asn	Tyr	Glu	Val	Asn	Arg	Gln	Val	Ile	Leu
			420					425					430		
Gln	Val	Gly	Val	Ile	Asn	Glu	Ala	Gln	Phe	Ser	Lys	Ala	Ala	Ser	Ser
		435					440					445			
Gln	Thr	Pro	Thr	Met	Cys	Thr	Thr	Thr	Val	Thr	Val	Lys	Ile	Ile	Asp
	450					455					460				
Ser	Asp	Glu	Gly	Pro	Glu	Cys	His	Pro	Pro	Val	Lys	Val	Ile	Gln	Ser
465					470					475				480	
Gln	Asp	Gly	Phe	Pro	Ala	Gly	Gln	Glu	Leu	Leu	Gly	Tyr	Lys	Ala	Leu
				485					490					495	
Asp	Pro	Glu	Ile	Ser	Ser	Gly	Glu	Gly	Leu	Arg	Tyr	Gln	Lys	Leu	Gly
			500					505					510		
Asp	Glu	Asp	Asn	Trp	Phe	Glu	Ile	Asn	Gln	His	Thr	Gly	Asp	Leu	Arg
		515					520					525			
Thr	Leu	Lys	Val	Leu	Asp	Arg	Glu	Ser	Lys	Phe	Val	Lys	Asn	Asn	Gln
	530					535					540				
Tyr	Asn	Ile	Ser	Val	Val	Ala	Gly	Asp	Ala	Val	Gly	Arg	Ser	Cys	Thr
545					550					555					560
Gly	Thr	Leu	Val	Val	His	Leu	Asp	Asp	Tyr	Asn	Asp	His	Ala	Pro	Gln
				565					570					575	
Ile	Asp	Lys	Glu	Val	Thr	Ile	Cys	Gln	Asn	Asn	Glu	Asp	Phe	Val	Val
			580					585					590		
Leu	Lys	Pro	Val	Asp	Pro	Asp	Gly	Pro	Glu	Asn	Gly	Pro	Pro	Phe	Gln
		595					600					605			
Phe	Phe	Leu	Asp	Asn	Ser	Ala	Ser	Lys	Asn	Trp	Asn	Ile	Lys	Lys	Lys
	610					615					620				
Asp	Gly	Lys	Thr	Ala	Ile	Leu	Arg	Gln	Arg	Gln	Asn	Leu	Asp	Tyr	Asn
625					630					635				640	
Tyr	Tyr	Ser	Val	Pro	Ile	Gln	Ile	Lys	Asp	Arg	His	Gly	Leu	Val	Ala
				645					650					655	
Thr	His	Met	Leu	Thr	Val	Arg	Val	Cys	Asp	Cys	Ser	Thr	Pro	Ser	Glu
			660					665					670		
Cys	Thr	Met	Lys	Asp	Lys	Ser	Thr	Arg	Asp	Val	Arg	Pro	Asn	Val	Ile
		675					680					685			
Leu	Gly	Arg	Trp	Ala	Ile	Leu	Ala	Met	Val	Leu	Gly	Ser	Val	Leu	Leu
		690				695					700				
Leu	Cys	Ile	Leu	Phe	Thr	Cys	Phe	Cys	Val	Thr	Ala	Lys	Arg	Thr	Val
705					710					715					720
Lys	Lys	Cys	Phe	Pro	Glu	Asp	Ile	Ala	Gln	Gln	Asn	Leu	Ile	Val	Ser
				725					730						

<210> 1429
 <211> 262
 <212> PRT
 <213> Homo sapiens

<400> 1429
 Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys
 1 5 10 15
 Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val
 20 25 30
 Val Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu
 35 40 45
 Gln Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr
 50 55 60
 Ile Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe
 65 70 75 80
 Leu Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Thr Asp Val Arg
 85 90 95
 Lys Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu
 100 105 110
 Pro Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr
 115 120 125
 Gln Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro
 130 135 140
 Asp Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr
 145 150 155 160
 Ile Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly
 165 170 175
 Lys Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile
 180 185 190
 Leu Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val
 195 200 205
 Leu Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro
 210 215 220
 Glu Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu
 225 230 235 240
 Leu Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln
 245 250 255
 Gly Lys Thr Lys Asn *
 260 261

<210> 1430
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1430
 Met Ser Tyr Thr Ala Phe Leu Ser Val Cys Cys Leu Pro Leu Leu Pro
 1 5 10 15
 Leu Cys Asp Phe Ala Leu Tyr Val Leu Leu Asp Lys Phe Lys Gly Gly
 20 25 30
 Phe Arg Gln Gln Asn Ser Pro Gln Ser Ile Tyr Gln His Asn Pro Tyr

		35					40					45			
Gln	Asn	Pro	Asn	Asn	Val	Leu	Ile	Phe	Leu	Gln	Lys	Trp	Lys	Asn	Arg
	50					55					60				
Cys	*														
65															

<210> 1431
 <211> 437
 <212> PRT
 <213> Homo sapiens

<400> 1431

Met	Leu	Lys	Val	Ser	Ala	Val	Leu	Cys	Val	Cys	Ala	Ala	Ala	Trp	Cys
1				5					10					15	
Ser	Gln	Ser	Leu	Ala	Ala	Ala	Ala	Ala	Val	Ala	Ala	Ala	Gly	Gly	Arg
			20					25					30		
Ser	Asp	Gly	Gly	Asn	Phe	Leu	Asp	Asp	Lys	Gln	Trp	Leu	Thr	Thr	Ile
		35					40					45			
Ser	Gln	Tyr	Asp	Lys	Glu	Val	Gly	Gln	Trp	Asn	Lys	Phe	Arg	Asp	Glu
	50					55				60					
Val	Glu	Asp	Asp	Tyr	Phe	Arg	Thr	Trp	Ser	Pro	Gly	Lys	Pro	Phe	Asp
65					70					75					80
Gln	Ala	Leu	Asp	Pro	Ala	Lys	Asp	Pro	Cys	Leu	Lys	Met	Lys	Cys	Ser
				85					90					95	
Arg	His	Lys	Val	Cys	Ile	Ala	Gln	Asp	Ser	Gln	Thr	Ala	Val	Cys	Ile
			100					105					110		
Ser	His	Arg	Arg	Leu	Thr	His	Arg	Met	Lys	Glu	Ala	Gly	Val	Asp	His
	115						120					125			
Arg	Gln	Trp	Arg	Gly	Pro	Ile	Leu	Ser	Thr	Cys	Lys	Gln	Cys	Pro	Val
	130					135					140				
Val	Tyr	Pro	Ser	Pro	Val	Cys	Gly	Ser	Asp	Gly	His	Thr	Tyr	Ser	Phe
145					150					155					160
Gln	Cys	Lys	Leu	Glu	Tyr	Gln	Ala	Cys	Val	Leu	Gly	Lys	Gln	Ile	Ser
				165					170					175	
Val	Lys	Cys	Glu	Gly	His	Cys	Pro	Cys	Pro	Ser	Asp	Lys	Pro	Thr	Ser
			180					185					190		
Thr	Ser	Arg	Asn	Val	Lys	Arg	Ala	Cys	Ser	Asp	Leu	Glu	Phe	Arg	Glu
	195						200					205			
Val	Ala	Asn	Arg	Leu	Arg	Asp	Trp	Phe	Lys	Ala	Leu	His	Glu	Ser	Gly
	210					215					220				
Ser	Gln	Asn	Lys	Lys	Thr	Lys	Thr	Leu	Leu	Arg	Pro	Glu	Arg	Ser	Arg
225					230					235					240
Phe	Asp	Thr	Ser	Ile	Leu	Pro	Ile	Cys	Lys	Asp	Ser	Leu	Gly	Trp	Met
				245					250					255	
Phe	Asn	Arg	Leu	Asp	Thr	Asn	Tyr	Asp	Leu	Leu	Leu	Asp	Gln	Ser	Glu
			260					265					270		
Leu	Arg	Ser	Ile	Tyr	Leu	Asp	Lys	Asn	Glu	Gln	Cys	Thr	Lys	Ala	Phe
	275						280					285			
Phe	Asn	Ser	Cys	Asp	Thr	Tyr	Lys	Asp	Ser	Leu	Ile	Ser	Asn	Asn	Glu
	290					295					300				
Trp	Cys	Tyr	Cys	Phe	Gln	Arg	Gln	Gln	Asp	Pro	Pro	Cys	Gln	Thr	Glu
305					310					315					320
Leu	Ser	Asn	Ile	Gln	Lys	Arg	Gln	Gly	Val	Lys	Lys	Leu	Leu	Gly	Gln
				325					330					335	
Tyr	Ile	Pro	Leu	Cys	Asp	Glu	Asp	Gly	Tyr	Tyr	Lys	Pro	Thr	Gln	Cys
			340					345					350		

His Gly Ser Val Gly Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu
 355 360 365
 Val Met Gly Ser Arg Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe
 370 375 380
 Glu Ile Ser Gly Asp Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp
 385 390 395 400
 Asp Glu Asp Asp Glu Asp Asp Ile Met Asn Asp Glu Asp Glu Ile Glu
 405 410 415
 Asp Asp Asp Glu Asp Glu Gly Asp Asp Asp Gly Gly Asp Asp His
 420 425 430
 Asp Val Tyr Ile *
 435 436

<210> 1432
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1432
 Met Ser Tyr Val Glu Ile Leu Ile Pro Val Leu Leu Cys Leu His Ala
 1 5 10 15
 Phe Phe Pro Ser Ser Arg Arg His Val Ala Trp Phe Leu Ile Phe Ile
 20 25 30
 Cys Lys Phe Phe Lys Phe Cys Leu Ile Leu Lys Phe Ile Ile Leu Ile
 35 40 45
 Leu Asn Tyr Leu *
 50 52

<210> 1433
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1433
 Met Glu Leu Lys Gly Phe Trp Leu Cys Leu Phe Leu Arg Phe Val Lys
 1 5 10 15
 Trp Phe Val Asn Lys Gly Met Ile Leu Cys Thr Leu Phe Tyr Asn Leu
 20 25 30
 Ile Tyr Ser Leu Tyr Asn Met Cys Trp Thr Val Leu Trp Ile Arg Lys
 35 40 45
 Tyr Gln Thr Leu Leu Lys Glu Ser Phe Phe Ser Leu Asn Thr Phe Leu
 50 55 60
 Phe Lys Asp Lys Ala Ser Thr Ser Ile Pro Leu *
 65 70 75

<210> 1434
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 1434

Met	Glu	Ser	Trp	Trp	Gly	Leu	Pro	Cys	Leu	Ala	Phe	Leu	Cys	Phe	Leu
1				5					10					15	
Met	His	Ala	Arg	Gly	Gln	Arg	Asp	Phe	Asp	Leu	Ala	Asp	Ala	Leu	Asp
			20					25					30		
Asp	Pro	Glu	Pro	Thr	Lys	Lys	Pro	Asn	Ser	Asp	Ile	Tyr	Pro	Lys	Pro
		35					40					45			
Lys	Pro	Pro	Tyr	Tyr	Pro	Gln	Pro	Glu	Asn	Pro	Asp	Ser	Gly	Gly	Asn
	50					55					60				
Ile	Tyr	Pro	Arg	Pro	Lys	Pro	Arg	Pro	Gln	Pro	Gln	Pro	Gly	Asn	Ser
65					70				75					80	
Gly	Asn	Ser	Gly	Gly	Ser	Tyr	Phe	Asn	Asp	Val	Asp	Arg	Asp	Asp	Gly
				85					90					95	
Arg	Tyr	Pro	Pro	Arg	Pro	Arg	Pro	Arg	Pro	Pro	Ala	Gly	Gly	Gly	Gly
			100					105					110		
Gly	Gly	Tyr	Ser	Ser	Tyr	Gly	Asn	Ser	Asp	Asn	Thr	His	Gly	Gly	Asp
		115					120					125			
His	His	Ser	Thr	Tyr	Gly	Asn	Pro	Glu	Gly	Asn	Met	Val	Ala	Lys	Ile
	130					135					140				
Val	Ser	Pro	Ile	Val	Ser	Val	Val	Val	Val	Thr	Leu	Leu	Gly	Ala	Ala
145					150					155					160
Ala	Gln	Leu	Phe	Gln	Thr	Lys	Gln	*							
				165			168								

<210> 1435
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 1435

Met	Arg	Phe	Val	Thr	Leu	Ser	Ser	Ala	Cys	Leu	Cys	Pro	Cys	Pro	Leu
1				5					10					15	
Gly	Pro	Cys	Trp	Thr	Arg	His	Pro	Ser	Tyr	Gly	Asn	Leu	His	Glu	Ala
			20					25					30		
Ser	Thr	Ser	Leu	Pro	Pro	Arg	His	Trp	Thr	Gly	Ala	Arg	Lys	Trp	Asn
		35					40					45			
Glu	Ser	Ser	His	Cys	Leu	Lys	Ser	Trp	Arg	Pro	Ser	Ser	Ala	Ser	Gly
	50					55					60				
Ser	Pro	Glu	Asn	Leu	Gly	Ser	Asp	Arg	Arg	Thr	Glu	Thr	Glu	Gly	Arg
65					70				75					80	
Glu	Arg	Asp	Cys	Asp	Arg	Glu	Ala	Glu	Glu	Gly	Asp	Arg	Val	Arg	Glu
				85					90					95	
Glu	Gln	Asn	Ser	Leu	Gln	Trp	Glu	Gln	Arg	Gln	Lys	Cys	Gly	Gly	Pro
			100					105					110		
Thr	Gly	Arg	Gly	Gly	Arg	Glu	Gly	Glu	Gly	Arg	Arg	Glu	Gly	Gln	Leu
	115						120					125			
Pro	Val	Gln	Val	Ala	Val	Arg	Ala	Leu	Gly	Leu	Gly	Arg	Gly	Thr	Leu
	130					135					140				
Leu	Leu	Leu	Ala	Ser	His	Thr	Gly	Ser	Ile	Arg	Gly	Pro	Arg	Glu	Gln
145					150					155					160
Val	Ser														
	162														

<210> 1436

<211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1436
 Met Trp Ile Val Leu Leu Gly Gly Phe Val Gly Pro Leu Tyr Leu Thr
 1 5 10 15
 Pro Ala Pro Ser Pro Cys Thr His Thr Leu Gly Val Arg Ala Val Pro
 20 25 30
 Leu Val Thr Gly Leu Thr Ser Gln Leu Trp Leu Asn Ala Ala Gly Glu
 35 40 45
 Ser Leu Thr Tyr Arg Met Trp Ser Met Ala Ser Met Thr Glu Gln Pro
 50 55 60
 Glu Leu Ser Glu Met Tyr Met Leu Pro Thr Leu His Glu
 65 70 75 77

<210> 1437
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1437
 Met Cys Ser Leu Pro Arg His Leu Leu Phe Leu Ile Ile Phe Arg Ala
 1 5 10 15
 Tyr Ser Leu Ala Val Asp Leu Ser Thr His Ser Leu Thr Thr Ala Lys
 20 25 30
 Phe Pro Ser Pro Ile Val Leu Pro Thr Leu Tyr Arg Ser Val Ile Val
 35 40 45
 Ala Gly Ile Trp Lys Pro Ser Ser Asp Thr Ser Ser Pro Gly Pro Ser
 50 55 60
 Phe Ser Ser Ile Glu Leu Gln Thr Leu Val Asp Ala Ser Asp Val Glu
 65 70 75 80
 Glu Pro Pro Cys *
 84

<210> 1438
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1438
 Met Ile Gly Asp Ile Leu Leu Phe Gly Thr Leu Leu Met Asn Ala Gly
 1 5 10 15
 Ala Val Leu Asn Phe Lys Leu Lys Lys Lys Asp Thr Gln Gly Phe Gly
 20 25 30
 Glu Glu Ser Arg Glu Pro Ser Thr Gly Asp Asn Ile Arg Glu Phe Leu
 35 40 45
 Leu Ser Leu Arg Tyr Phe Arg Ile Phe Ile Ala Leu Trp Asn Ile Phe
 50 55 60
 Met Met Phe Cys Met Ile Val Leu Phe Gly Ser *
 65 70 75

<210> 1439
 <211> 425
 <212> PRT
 <213> Homo sapiens

<400> 1439
 Met Ser Leu Thr Ile Trp Thr Val Cys Gly Val Leu Ser Leu Phe Gly
 1 5 10 15
 Ala Leu Ser Tyr Ala Glu Leu Gly Thr Thr Ile Lys Lys Ser Gly Gly
 20 25 30
 His Tyr Thr Tyr Ile Leu Glu Val Phe Gly Pro Leu Pro Ala Phe Val
 35 40 45
 Arg Val Trp Val Glu Leu Leu Ile Ile Arg Pro Ala Ala Thr Ala Val
 50 55 60
 Ile Ser Leu Ala Phe Gly Arg Tyr Ile Leu Glu Pro Phe Phe Ile Gln
 65 70 75 80
 Cys Glu Ile Pro Glu Leu Ala Ile Lys Leu Ile Thr Ala Val Gly Ile
 85 90 95
 Thr Val Val Met Val Leu Asn Ser Met Ser Val Ser Trp Ser Ala Arg
 100 105 110
 Ile Gln Ile Phe Leu Thr Phe Cys Lys Leu Thr Ala Ile Leu Ile Ile
 115 120 125
 Ile Val Pro Gly Val Met Gln Leu Ile Lys Gly Gln Thr Gln Asn Phe
 130 135 140
 Lys Asp Ala Phe Ser Gly Arg Asp Ser Ser Ile Thr Arg Leu Pro Leu
 145 150 155 160
 Ala Phe Tyr Tyr Gly Met Tyr Ala Tyr Ala Gly Trp Phe Tyr Leu Asn
 165 170 175
 Phe Val Thr Glu Glu Val Glu Asn Pro Glu Lys Thr Ile Pro Leu Ala
 180 185 190
 Ile Cys Ile Ser Met Ala Ile Val Thr Ile Gly Tyr Val Leu Thr Asn
 195 200 205
 Val Ala Tyr Phe Thr Thr Ile Asn Ala Glu Glu Leu Leu Leu Ser Asn
 210 215 220
 Ala Val Ala Val Thr Phe Ser Glu Arg Leu Leu Gly Asn Phe Ser Leu
 225 230 235 240
 Ala Val Pro Ile Phe Val Ala Leu Ser Cys Phe Gly Ser Met Asn Gly
 245 250 255
 Gly Val Phe Ala Val Ser Arg Leu Phe Tyr Val Ala Ser Arg Glu Gly
 260 265 270
 His Leu Pro Glu Ile Leu Ser Met Ile His Val Arg Lys His Thr Pro
 275 280 285
 Leu Pro Ala Val Ile Val Leu His Pro Leu Thr Met Ile Met Leu Phe
 290 295 300
 Ser Gly Asp Leu Asp Ser Leu Leu Asn Phe Leu Ser Phe Ala Arg Trp
 305 310 315 320
 Leu Phe Ile Gly Leu Ala Val Ala Gly Leu Ile Tyr Leu Arg Tyr Lys
 325 330 335
 Cys Pro Asp Met His Arg Pro Phe Lys Val Pro Leu Phe Ile Pro Ala
 340 345 350
 Leu Phe Ser Phe Thr Cys Leu Phe Met Val Ala Leu Ser Leu Tyr Ser
 355 360 365
 Asp Pro Phe Ser Thr Gly Ile Gly Phe Val Ile Thr Leu Thr Gly Val
 370 375 380
 Pro Ala Tyr Tyr Leu Phe Ile Ile Trp Asp Lys Lys Pro Arg Trp Phe
 385 390 395 400

Arg Ile Met Ser Glu Lys Ile Thr Arg Thr Leu Gln Ile Ile Leu Glu
 405 410 415
 Val Val Pro Glu Glu Asp Lys Leu *
 420 424

<210> 1440
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1440
 Met Ser Val Phe Trp Gly Phe Val Gly Phe Leu Val Pro Trp Phe Ile
 1 5 10 15
 Pro Lys Gly Pro Asn Arg Gly Val Ile Ile Thr Met Leu Val Thr Cys
 20 25 30
 Ser Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala Ile Leu Ala Gln Leu
 35 40 45
 Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu Thr Ile Trp Tyr Leu
 50 55 60
 Lys Tyr His Trp Pro *
 65 69

<210> 1441
 <211> 1691
 <212> PRT
 <213> Homo sapiens

<400> 1441
 Met Trp Ser Leu His Ile Val Leu Met Arg Cys Ser Phe Arg Leu Thr
 1 5 10 15
 Lys Ser Leu Ala Thr Gly Pro Trp Ser Leu Ile Leu Ile Leu Phe Ser
 20 25 30
 Val Gln Tyr Val Tyr Gly Ser Gly Lys Lys Tyr Ile Gly Pro Cys Gly
 35 40 45
 Gly Arg Asp Cys Ser Val Cys His Cys Val Pro Glu Lys Gly Ser Arg
 50 55 60
 Gly Pro Pro Gly Pro Pro Gly Pro Gln Gly Pro Ile Gly Pro Leu Gly
 65 70 75 80
 Ala Pro Gly Pro Ile Gly Leu Ser Gly Glu Lys Gly Met Arg Gly Asp
 85 90 95
 Arg Gly Pro Pro Gly Ala Ala Gly Asp Lys Gly Asp Lys Gly Pro Thr
 100 105 110
 Gly Val Pro Gly Phe Pro Gly Leu Asp Gly Ile Pro Gly His Pro Gly
 115 120 125
 Pro Pro Gly Pro Arg Gly Lys Pro Gly Met Ser Gly His Asn Gly Ser
 130 135 140
 Arg Gly Asp Pro Gly Phe Pro Gly Gly Arg Gly Ala Leu Gly Pro Gly
 145 150 155 160
 Gly Pro Leu Gly His Pro Gly Glu Lys Gly Glu Lys Gly Asn Ser Val
 165 170 175
 Phe Ile Leu Gly Ala Val Lys Gly Ile Gln Gly Asp Arg Gly Asp Pro
 180 185 190
 Gly Leu Pro Gly Leu Pro Gly Ser Trp Gly Ala Gly Gly Pro Ala Gly

		195						200						205				
Pro	Thr	Gly	Tyr	Pro	Gly	Glu	Pro	Gly	Leu	Val	Gly	Pro	Pro	Gly	Gln			
	210					215					220							
Pro	Gly	Arg	Pro	Gly	Leu	Lys	Gly	Asn	Pro	Gly	Val	Gly	Val	Lys	Gly			
225					230						235				240			
Gln	Met	Gly	Asp	Pro	Gly	Glu	Val	Gly	Gln	Gln	Gly	Ser	Pro	Gly	Pro			
				245					250					255				
Thr	Leu	Leu	Val	Glu	Pro	Pro	Asp	Phe	Cys	Leu	Tyr	Lys	Gly	Glu	Lys			
			260					265						270				
Gly	Ile	Lys	Gly	Ile	Pro	Gly	Met	Val	Gly	Leu	Pro	Gly	Pro	Pro	Gly			
		275					280							285				
Arg	Lys	Gly	Glu	Ser	Gly	Ile	Gly	Ala	Lys	Gly	Glu	Lys	Gly	Ile	Pro			
	290					295					300							
Gly	Phe	Pro	Gly	Pro	Arg	Gly	Asp	Pro	Gly	Ser	Tyr	Gly	Ser	Pro	Gly			
305					310					315					320			
Phe	Pro	Gly	Leu	Lys	Gly	Glu	Leu	Gly	Leu	Val	Gly	Asp	Pro	Gly	Leu			
				325					330					335				
Phe	Gly	Leu	Ile	Gly	Pro	Lys	Gly	Asp	Pro	Gly	Asn	Arg	Gly	His	Pro			
			340					345					350					
Gly	Pro	Pro	Gly	Val	Leu	Val	Thr	Pro	Pro	Leu	Pro	Leu	Lys	Gly	Pro			
			355				360						365					
Pro	Gly	Asp	Pro	Gly	Phe	Pro	Gly	Arg	Tyr	Gly	Glu	Thr	Gly	Asp	Val			
	370					375					380							
Gly	Pro	Pro	Gly	Pro	Pro	Gly	Leu	Leu	Gly	Arg	Pro	Gly	Glu	Ala	Cys			
385					390					395					400			
Ala	Gly	Met	Ile	Gly	Pro	Pro	Gly	Pro	Gln	Gly	Phe	Pro	Gly	Leu	Pro			
				405					410					415				
Gly	Leu	Pro	Gly	Glu	Ala	Gly	Ile	Pro	Gly	Arg	Pro	Asp	Ser	Ala	Pro			
			420					425					430					
Gly	Lys	Pro	Gly	Lys	Pro	Gly	Ser	Pro	Gly	Leu	Pro	Gly	Ala	Pro	Gly			
		435					440					445						
Leu	Gln	Gly	Leu	Pro	Gly	Ser	Ser	Val	Ile	Tyr	Cys	Ser	Val	Gly	Asn			
	450					455					460							
Pro	Gly	Pro	Gln	Gly	Ile	Lys	Gly	Lys	Val	Gly	Pro	Pro	Gly	Gly	Arg			
465					470					475					480			
Gly	Pro	Lys	Gly	Glu	Lys	Gly	Asn	Glu	Gly	Leu	Cys	Ala	Cys	Glu	Pro			
				485					490					495				
Gly	Pro	Met	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Leu	Pro	Gly	Arg	Gln	Gly			
			500					505					510					
Ser	Lys	Gly	Asp	Leu	Gly	Leu	Pro	Gly	Trp	Leu	Gly	Thr	Lys	Gly	Asp			
		515					520					525						
Pro	Gly	Pro	Pro	Gly	Ala	Glu	Gly	Pro	Pro	Gly	Leu	Pro	Gly	Lys	His			
					535						540							
Gly	Ala	Ser	Gly	Pro	Pro	Gly	Asn	Lys	Gly	Ala	Lys	Gly	Asp	Met	Val			
545					550					555					560			
Val	Ser																	

Pro Gly Arg His Gly Pro Pro Gly Phe Asp Gly Pro Pro Gly Pro Lys
 675 680 685
 Gly Phe Pro Gly Pro Gln Gly Ala Pro Gly Leu Ser Gly Ser Asp Gly
 690 695 700
 His Lys Gly Arg Pro Gly Thr Pro Gly Thr Ala Glu Ile Pro Gly Pro
 705 710 715 720
 Pro Gly Phe Arg Gly Asp Met Gly Asp Pro Gly Phe Gly Gly Glu Lys
 725 730 735
 Gly Ser Ser Pro Val Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly Val
 740 745 750
 Asn Gly Gln Lys Gly Ile Pro Gly Asp Pro Ala Phe Gly His Leu Gly
 755 760 765
 Pro Pro Gly Lys Arg Gly Leu Ser Gly Val Pro Gly Ile Lys Gly Pro
 770 775 780
 Arg Gly Asp Pro Gly Cys Pro Gly Ala Glu Gly Pro Ala Gly Ile Pro
 785 790 795 800
 Gly Phe Leu Gly Leu Lys Gly Pro Lys Gly Arg Glu Gly His Ala Gly
 805 810 815
 Phe Pro Gly Val Pro Gly Pro Pro Gly His Ser Cys Glu Arg Gly Ala
 820 825 830
 Pro Gly Ile Pro Gly Gln Pro Gly Leu Pro Gly Tyr Pro Gly Ser Pro
 835 840 845
 Gly Ala Pro Gly Gly Lys Gly Gln Pro Gly Asp Val Gly Pro Pro Gly
 850 855 860
 Pro Ala Gly Met Lys Gly Leu Pro Gly Leu Pro Gly Arg Pro Gly Ala
 865 870 875 880
 His Gly Pro Pro Gly Leu Pro Gly Ile Pro Gly Pro Phe Gly Asp Asp
 885 890 895
 Gly Leu Pro Gly Pro Pro Gly Pro Lys Gly Pro Arg Gly Leu Pro Gly
 900 905 910
 Phe Pro Gly Phe Pro Gly Glu Arg Gly Lys Pro Gly Ala Glu Gly Cys
 915 920 925
 Pro Gly Ala Lys Gly Glu Pro Gly Glu Lys Gly Met Ser Gly Leu Pro
 930 935 940
 Gly Asp Arg Gly Leu Arg Gly Ala Lys Gly Ala Ile Gly Pro Pro Gly
 945 950 955 960
 Asp Glu Gly Glu Met Ala Ile Ile Ser Gln Lys Gly Thr Pro Gly Glu
 965 970 975
 Pro Gly Pro Pro Gly Asp Asp Gly Phe Pro Gly Glu Arg Gly Asp Lys
 980 985 990
 Gly Thr Pro Gly Met Gln Gly Arg Arg Gly Glu Leu Gly Arg Tyr Gly
 995 1000 1005
 Pro Pro Gly Phe His Arg Gly Glu Pro Gly Glu Lys Gly Gln Pro Gly
 1010 1015 1020
 Pro Pro Gly Pro Pro Gly Pro Pro Gly Ser Thr Gly Leu Arg Gly Phe
 1025 1030 1035 1040
 Ile Gly Phe Pro Gly Leu Pro Gly Asp Gln Gly Glu Pro Gly Ser Pro
 1045 1050 1055
 Gly Pro Pro Gly Phe Ser Gly Ile Asp Gly Ala Arg Gly Pro Lys Gly
 1060 1065 1070
 Asn Lys Gly Asp Pro Ala Ser His Phe Gly Pro Pro Gly Pro Lys Gly
 1075 1080 1085
 Glu Pro Gly Ser Pro Gly Cys Pro Gly His Phe Gly Ala Ser Gly Glu
 1090 1095 1100
 Gln Gly Leu Pro Gly Ile Gln Gly Pro Arg Gly Ser Pro Gly Arg Pro
 1105 1110 1115 1120
 Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Cys Pro Gly Asp His Gly
 1125 1130 1135
 Met Pro Gly Leu Arg Gly Gln Pro Gly Glu Met Gly Asp Pro Gly Pro

1140 1145 1150
 Arg Gly Leu Gln Gly Asp Pro Gly Ile Pro Gly Pro Pro Gly Ile Lys
 1155 1160 1165
 Gly Pro Ser Gly Ser Pro Gly Leu Asn Gly Leu His Gly Leu Lys Gly
 1170 1175 1180
 Gln Lys Gly Thr Lys Gly Ala Ser Gly Leu His Asp Val Gly Pro Pro
 1185 1190 1195 1200
 Gly Pro Val Gly Ile Pro Gly Leu Lys Gly Glu Arg Gly Asp Pro Gly
 1205 1210 1215
 Ser Pro Gly Ile Ser Pro Pro Gly Pro Arg Gly Lys Lys Gly Pro Pro
 1220 1225 1230
 Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Pro Ala Gly Ala Thr Gly
 1235 1240 1245
 Arg Ala Pro Lys Asp Ile Pro Asp Pro Gly Pro Pro Gly Asp Gln Gly
 1250 1255 1260
 Pro Pro Gly Pro Asp Gly Pro Arg Gly Ala Pro Gly Pro Pro Gly Leu
 1265 1270 1275 1280
 Pro Gly Ser Val Asp Leu Leu Arg Gly Glu Pro Gly Asp Cys Gly Leu
 1285 1290 1295
 Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Tyr Lys
 1300 1305 1310
 Gly Phe Pro Gly Cys Asp Gly Lys Asp Gly Gln Lys Gly Pro Val Gly
 1315 1320 1325
 Phe Pro Gly Pro Gln Gly Pro His Gly Phe Pro Gly Pro Pro Gly Glu
 1330 1335 1340
 Lys Gly Leu Pro Gly Pro Gly Arg Lys Gly Pro Thr Gly Leu Pro
 1345 1350 1355 1360
 Gly Pro Arg Gly Glu Pro Gly Pro Pro Ala Asp Val Asp Asp Cys Pro
 1365 1370 1375
 Arg Ile Pro Gly Leu Pro Gly Ala Pro Gly Met Arg Gly Pro Glu Gly
 1380 1385 1390
 Ala Met Gly Leu Pro Gly Met Arg Gly Pro Ser Gly Pro Gly Cys Lys
 1395 1400 1405
 Gly Glu Pro Gly Leu Asp Gly Arg Arg Gly Val Asp Gly Val Pro Gly
 1410 1415 1420
 Ser Pro Gly Pro Pro Gly Arg Lys Gly Asp Thr Gly Glu Asp Gly Tyr
 1425 1430 1435 1440
 Pro Gly Gly Pro Gly Pro Pro Gly Pro Ile Gly Asp Pro Gly Pro Lys
 1445 1450 1455
 Gly Phe Gly Pro Gly Tyr Leu Gly Gly Phe Leu Leu Val Leu His Ser
 1460 1465 1470
 Gln Thr Asp Gln Glu Pro Thr Cys Pro Leu Gly Met Pro Arg Leu Trp
 1475 1480 1485
 Thr Gly Tyr Ser Leu Leu Tyr Leu Glu Gly Gln Glu Lys Ala His Asn
 1490 1495 1500
 Gln Asp Leu Gly Leu Ala Gly Ser Cys Leu Pro Val Phe Ser Thr Leu
 1505 1510 1515 1520
 Pro Phe Ala Tyr Cys Asn Ile His Gln Val Cys His Tyr Ala Gln Arg
 1525 1530 1535
 Asn Asp Arg Ser Tyr Trp Leu Ala Ser Ala Ala Pro Leu Pro Met Met
 1540 1545 1550
 Pro Leu Ser Glu Glu Ala Ile Arg Pro Tyr Val Ser Arg Cys Ala Val
 1555 1560 1565
 Cys Glu Ala Pro Ala Gln Ala Val Ala Val His Ser Gln Asp Gln Ser
 1570 1575 1580
 Ile Pro Pro Cys Pro Gln Thr Trp Arg Ser Leu Trp Ile Gly Tyr Ser
 1585 1590 1595 1600
 Phe Leu Met His Thr Gly Ala Gly Asp Gln Gly Gly Gly Gln Ala Leu
 1605 1610 1615

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Met Ser Pro Gly Ser Cys Leu Glu Asp Phe Arg Ala Ala Pro Phe Leu
      1620                      1625                      1630
Glu Cys Gln Gly Arg Gln Gly Thr Cys His Phe Phe Ala Asn Lys Tyr
      1635                      1640                      1645
Ser Phe Trp Leu Thr Thr Val Lys Ala Asp Phe Glu Phe Ser Ser Ala
      1650                      1655                      1660
Pro Ala Pro Asp Thr Leu Lys Glu Ser Gln Ala Gln Arg Gln Lys Ile
1665                      1670                      1675                      1680
Ser Arg Cys Gln Val Cys Val Lys Tyr Ser *
      1685                      1690

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<210> 1442
<211> 153
<212> PRT
<213> Homo sapiens

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<400> 1442
Met Gly Val Met Ala Pro Arg Thr Leu Leu Leu Leu Leu Gly Ala
  1                      5                      10                      15
Leu Ala Leu Thr Glu Thr Trp Ala Gly Glu Cys Gly Val Gly Arg Glu
      20                      25                      30
Arg Ala Ser Ala Gly Arg Ser Glu Trp Pro Ala Arg Pro Gly Glu Pro
      35                      40                      45
Arg Arg Glu Glu Gly Arg Ala Gly Leu Ser Leu Ser Ser Pro Pro Gly
      50                      55                      60
Ser His Ser Leu Arg Tyr Phe Ser Thr Ala Val Ser Gln Pro Gly Arg
      65                      70                      75                      80
Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Glu Phe
      85                      90                      95
Val Arg Phe Asp Ser Asp Ser Val Ser Pro Arg Met Glu Arg Arg Ala
      100                      105                      110
Pro Trp Val Glu Gln Glu Gly Leu Glu Tyr Trp Asp Gln Glu Thr Arg
      115                      120                      125
Asn Ala Lys Gly His Ala Gln Ile Tyr Arg Val Asn Leu Arg Thr Leu
      130                      135                      140
Leu Arg Tyr Tyr Asn Gln Ser Glu Ala
145                      150                      153

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<210> 1443
<211> 58
<212> PRT
<213> Homo sapiens

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<400> 1443
Met Ser Leu Leu Cys Leu Lys Phe Phe Ser Gly Leu Trp Thr Ile Thr
  1                      5                      10                      15
Phe Ser Lys Gly Ala Lys Ile Ile His Trp Gly Arg Ser Leu Phe Asn
      20                      25                      30
Trp Ile Ser Met Cys Lys Arg Met Lys Leu Asp Pro Tyr Ser Tyr His
      35                      40                      45
Thr Gln Lys Leu Thr Gln Asn Gly Ser *
      50                      55                      57

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<210> 1444
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1444
 Met Pro Val Pro Leu Ala Tyr Phe Gln Ser Ser Ile Val Leu Phe Pro
 1 5 10 15
 Leu Ile Phe Ser Leu Val Thr Cys Val Ser Leu Asp Gly Glu Pro Lys
 20 25 30
 Ser Val Val Gly Val Ile Ser Ile Ser Ala Tyr Tyr Arg Ala Ile Ser
 35 40 45
 Ile Leu Leu Ile Phe Ser Lys Ser Phe Cys Cys Ala Ser Leu Ala Gly
 50 55 60
 Val Leu Val Ile *
 65 68

<210> 1445
 <211> 826
 <212> PRT
 <213> Homo sapiens

<400> 1445
 Met Gly Trp Leu Cys Ser Gly Leu Leu Phe Pro Val Ser Cys Leu Val
 1 5 10 15
 Leu Leu Gln Val Ala Ser Ser Gly Asn Met Lys Val Leu Gln Glu Pro
 20 25 30
 Thr Cys Val Ser Asp Tyr Met Ser Ile Ser Thr Cys Glu Trp Lys Met
 35 40 45
 Asn Gly Pro Thr Asn Cys Ser Thr Glu Leu Arg Leu Leu Tyr Gln Leu
 50 55 60
 Val Phe Leu Leu Ser Glu Ala His Thr Cys Val Pro Glu Asn Asn Gly
 65 70 75 80
 Gly Ala Gly Cys Val Cys His Leu Leu Met Asp Asp Val Val Ser Ala
 85 90 95
 Asp Asn Tyr Thr Leu Asp Leu Trp Ala Gly Gln Gln Leu Leu Trp Lys
 100 105 110
 Gly Ser Phe Lys Pro Ser Glu His Val Lys Pro Arg Ala Pro Gly Asn
 115 120 125
 Leu Thr Val His Thr Asn Val Ser Asp Thr Leu Leu Leu Thr Trp Ser
 130 135 140
 Asn Pro Tyr Pro Pro Asp Asn Tyr Leu Tyr Asn His Leu Thr Tyr Ala
 145 150 155 160
 Val Asn Ile Trp Ser Glu Asn Asp Pro Ala Asp Phe Arg Ile Tyr Asn
 165 170 175
 Val Thr Tyr Leu Glu Pro Ser Leu Arg Ile Ala Ala Ser Thr Leu Lys
 180 185 190
 Ser Gly Ile Ser Tyr Arg Ala Arg Val Arg Ala Trp Ala Gln Cys Tyr
 195 200 205
 Asn Thr Thr Trp Ser Glu Trp Ser Pro Ser Thr Lys Trp His Asn Ser
 210 215 220
 Tyr Arg Glu Pro Phe Glu Gln His Leu Leu Leu Gly Val Ser Val Ser
 225 230 235 240

Cys Ile Val Ile Leu Ala Val Cys Leu Leu Cys Tyr Val Ser Ile Thr
 245 250 255
 Lys Ile Lys Lys Glu Trp Trp Asp Gln Ile Pro Asn Pro Ala Arg Ser
 260 265 270
 Arg Leu Val Ala Ile Ile Ile Gln Asp Ala Gln Gly Ser Gln Trp Glu
 275 280 285
 Lys Arg Ser Arg Gly Gln Glu Pro Ala Lys Cys Pro His Trp Lys Asn
 290 295 300
 Cys Leu Thr Lys Leu Leu Pro Cys Phe Leu Glu His Asn Met Lys Arg
 305 310 315 320
 Asp Glu Asp Pro His Lys Ala Ala Lys Glu Met Pro Phe Gln Gly Ser
 325 330 335
 Gly Lys Ser Ala Trp Cys Pro Val Glu Ile Ser Lys Thr Val Leu Trp
 340 345 350
 Pro Glu Ser Ile Ser Val Val Arg Cys Val Glu Leu Phe Glu Ala Pro
 355 360 365
 Val Glu Cys Glu Glu Glu Glu Glu Val Glu Glu Glu Lys Gly Ser Phe
 370 375 380
 Cys Ala Ser Pro Glu Ser Ser Arg Asp Asp Phe Gln Glu Gly Arg Glu
 385 390 395 400
 Gly Ile Val Ala Arg Leu Thr Glu Ser Leu Phe Leu Asp Leu Leu Gly
 405 410 415
 Glu Glu Asn Gly Gly Phe Cys Gln Gln Asp Met Gly Glu Ser Cys Leu
 420 425 430
 Leu Pro Pro Ser Gly Ser Thr Ser Ala His Met Pro Trp Asp Glu Phe
 435 440 445
 Pro Ser Ala Gly Pro Lys Glu Ala Pro Pro Trp Gly Lys Glu Gln Pro
 450 455 460
 Leu His Leu Glu Pro Ser Pro Pro Ala Ser Pro Thr Gln Ser Pro Asp
 465 470 475 480
 Asn Leu Thr Cys Thr Glu Thr Pro Leu Val Ile Ala Gly Asn Pro Ala
 485 490 495
 Tyr Arg Ser Phe Ser Asn Ser Leu Ser Gln Ser Pro Cys Pro Arg Glu
 500 505 510
 Leu Gly Pro Asp Pro Leu Leu Ala Arg His Leu Glu Glu Val Glu Pro
 515 520 525
 Glu Met Pro Cys Val Pro Gln Leu Ser Glu Pro Thr Thr Val Pro Gln
 530 535 540
 Pro Glu Pro Glu Thr Trp Glu Gln Ile Leu Arg Arg Asn Val Leu Gln
 545 550 555 560
 His Gly Ala Ala Ala Ala Pro Val Ser Ala Pro Thr Ser Gly Tyr Gln
 565 570 575
 Glu Phe Val His Ala Val Glu Gln Gly Gly Thr Gln Ala Ser Ala Val
 580 585 590
 Val Gly Leu Gly Pro Pro Gly Glu Ala Gly Tyr Lys Ala Phe Ser Ser
 595 600 605
 Leu Leu Ala Ser Ser Ala Val Ser Pro Glu Lys Cys Gly Phe Gly Ala
 610 615 620
 Ser Ser Gly Glu Glu Gly Tyr Lys Pro Phe Gln Asp Leu Ile Pro Gly
 625 630 635 640
 Cys Pro Gly Asp Pro Ala Pro Val Pro Val Pro Leu Phe Thr Phe Gly
 645 650 655
 Leu Asp Arg Glu Pro Pro Arg Ser Pro Gln Ser Ser His Leu Pro Ser
 660 665 670
 Ser Ser Pro Glu His Leu Gly Leu Glu Pro Gly Glu Lys Val Glu Asp
 675 680 685
 Met Pro Lys Pro Pro Leu Pro Gln Glu Gln Ala Thr Asp Pro Leu Val
 690 695 700
 Asp Ser Leu Gly Ser Gly Ile Val Tyr Ser Ala Leu Thr Cys His Leu

705					710					715					720
Cys	Gly	His	Leu	Lys	Gln	Cys	His	Gly	Gln	Glu	Asp	Gly	Gly	Gln	Thr
				725					730					735	
Pro	Val	Met	Ala	Ser	Pro	Cys	Cys	Gly	Cys	Cys	Cys	Gly	Asp	Arg	Ala
			740					745					750		
Ser	Pro	Pro	Thr	Thr	Pro	Leu	Arg	Ala	Pro	Asp	Pro	Ser	Pro	Gly	Gly
		755				760						765			
Val	Pro	Leu	Glu	Ala	Ser	Leu	Cys	Pro	Ala	Ser	Leu	Ala	Pro	Ser	Gly
	770					775					780				
Ile	Ser	Glu	Lys	Ser	Lys	Ser	Ser	Ser	Ser	Phe	His	Pro	Ala	Pro	Gly
785					790					795					800
Asn	Ala	Gln	Ser	Ser	Ser	Gln	Thr	Pro	Lys	Ile	Val	Asn	Phe	Val	Ser
			805						810					815	
Val	Gly	Pro	Thr	Tyr	Met	Arg	Val	Ser	*						
			820					825							

<210> 1446
 <211> 367
 <212> PRT
 <213> Homo sapiens

<400> 1446

Met	Ala	Leu	Arg	Phe	Leu	Leu	Gly	Phe	Leu	Leu	Ala	Gly	Val	Asp	Leu
1				5					10					15	
Gly	Val	Tyr	Leu	Met	Arg	Leu	Glu	Leu	Cys	Asp	Pro	Thr	Gln	Arg	Leu
			20					25					30		
Arg	Val	Ala	Leu	Ala	Gly	Glu	Leu	Val	Gly	Val	Gly	Gly	His	Phe	Leu
		35				40						45			
Phe	Leu	Gly	Leu	Ala	Leu	Val	Ser	Lys	Asp	Trp	Arg	Phe	Leu	Gln	Arg
	50				55					60					
Met	Ile	Thr	Ala	Pro	Cys	Ile	Leu	Phe	Leu	Phe	Tyr	Gly	Trp	Pro	Gly
65					70					75					80
Leu	Phe	Leu	Glu	Ser	Ala	Arg	Trp	Leu	Ile	Val	Lys	Arg	Gln	Ile	Glu
				85					90					95	
Glu	Ala	Gln	Ser	Val	Leu	Arg	Ile	Leu	Ala	Glu	Arg	Asn	Arg	Pro	His
			100					105					110		
Gly	Gln	Met	Leu	Gly	Glu	Glu	Ala	Gln	Glu	Ala	Leu	Gln	Asp	Leu	Glu
	115					120						125			
Asn	Thr	Cys	Pro	Leu	Pro	Ala	Thr	Ser	Ser	Phe	Ser	Phe	Ala	Ser	Leu
	130					135					140				
Leu	Asn	Tyr	Arg	Asn	Ile	Trp	Lys	Asn	Leu	Leu	Ile	Leu	Gly	Phe	Thr
145					150					155					160
Asn	Phe	Ile	Ala	His	Ala	Ile	Arg	His	Cys	Tyr	Gln	Pro	Val	Gly	Gly
			165						170					175	
Gly	Gly	Ser	Pro	Ser	Asp	Phe	Tyr	Leu	Cys	Ser	Leu	Leu	Ala	Ser	Gly
			180					185					190		
Thr	Ala	Ala	Leu	Ala	Cys	Val	Phe	Leu	Gly	Val	Thr	Val	Asp	Arg	Phe
	195						200					205			
Gly	Arg	Arg	Gly	Ile	Leu	Leu	Leu	Ser	Met	Thr	Leu	Thr	Gly	Ile	Ala
	210					215						220			
Ser	Leu	Val	Leu	Leu	Gly	Leu	Trp	Asp	Tyr	Leu	Asn	Glu	Ala	Ala	Ile
225					230					235					240
Thr	Thr	Phe	Ser	Val	Leu	Gly	Leu	Phe	Ser	Ser	Gln	Ala	Ala	Ala	Ile
			245						250					255	
Leu	Ser	Thr	Leu	Leu	Ala	Ala	Glu	Val	Ile	Pro	Thr	Thr	Val	Arg	Gly
			260					265						270	

```

Arg Gly Leu Gly Leu Ile Met Ala Leu Gly Ala Leu Gly Gly Leu Ser
      275                280                285
Gly Pro Ala Gln Arg Leu His Met Gly His Gly Ala Phe Leu Gln His
      290                295                300
Val Val Leu Ala Ala Cys Ala Leu Leu Cys Ile Leu Ser Ile Met Leu
      305                310                315                320
Leu Pro Glu Thr Lys Arg Lys Leu Leu Pro Glu Val Leu Arg Asp Gly
      325                330                335
Glu Leu Cys Arg Arg Pro Ser Leu Leu Arg Gln Pro Pro Pro Thr Arg
      340                345                350
Cys Asp His Val Pro Leu Leu Ala Thr Pro Asn Pro Ala Leu *
      355                360                365 366

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<210> 1447
 <211> 79
 <212> PRT
 <213> Homo sapiens

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<400> 1447
Met Ala Ile Ser Trp Leu Gly Thr Trp Leu Leu Gln Ser His Arg His
  1      5      10      15
Trp Ser Glu Pro Gln Leu Cys Arg Leu Pro Ala Arg His His Leu Ile
      20      25      30
Asn Leu Asn Phe Met Val Ala Glu Gly Ile Gly Asp Arg Ala Trp His
      35      40      45
Ile Ile Ser Ala Gln Leu Phe Met Thr Phe Ser Phe His Ala Val Ile
      50      55      60
Leu Gln Thr Asp Leu Gly Glu Ala Gly Lys Tyr Lys Asp Lys *
      65      70      75      78

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<210> 1448
 <211> 276
 <212> PRT
 <213> Homo sapiens

```

<400> 1448
Met Val Trp Val Val Leu Leu Ser Leu Leu Cys Tyr Leu Val Leu Phe
  1      5      10      15
Leu Cys Arg His Ser Ser His Arg Gly Val Phe Leu Ser Val Thr Ile
      20      25      30
Leu Ile Tyr Leu Leu Met Gly Glu Met His Met Val Asp Thr Val Thr
      35      40      45
Trp His Lys Met Arg Gly Ala Gln Met Ile Val Ala Met Lys Ala Val
      50      55      60
Ser Leu Gly Phe Asp Leu Asp Arg Gly Glu Val Gly Thr Val Pro Ser
      65      70      75      80
Pro Val Glu Phe Met Gly Tyr Leu Tyr Phe Val Gly Thr Ile Val Phe
      85      90      95
Gly Pro Trp Ile Ser Phe His Ser Tyr Leu Gln Ala Val Gln Gly Arg
      100      105      110
Pro Leu Ser Cys Arg Trp Leu Gln Lys Val Ala Arg Ser Leu Ala Leu
      115      120      125
Ala Leu Leu Cys Leu Val Leu Ser Thr Cys Val Gly Pro Tyr Leu Phe

```

```

      130              135              140
Pro Tyr Phe Ile Pro Leu Asn Gly Asp Arg Leu Leu Arg Lys Trp Leu
145              150              155              160
Arg Ala Tyr Glu Ser Ala Val Ser Phe His Phe Ser Asn Tyr Phe Val
      165              170              175
Gly Phe Leu Ser Glu Ala Thr Ala Thr Leu Ala Gly Ala Gly Phe Thr
      180              185              190
Glu Glu Lys Asp His Leu Glu Trp Asp Leu Thr Val Ser Lys Pro Leu
      195              200              205
Asn Val Glu Leu Pro Arg Ser Met Val Glu Val Val Thr Ser Trp Asn
      210              215              220
Leu Pro Met Ser Tyr Trp Leu Asn Asn Tyr Gly Phe Lys Asn Ala Leu
225              230              235              240
Arg Leu Gly Thr Leu Leu Gly Cys Ala Gly His Leu Cys Ser Gln Arg
      245              250              255
Pro Ser Lys Leu Leu Lys Phe Pro Pro Gly Trp Gly Pro Cys Cys Pro
      260              265              270
Gly Phe Leu *
      275

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<210> 1449
<211> 597
<212> PRT
<213> Homo sapiens

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      <400> 1449
Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly
  1              5              10              15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
      20              25              30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
      35              40              45
Ser Ser Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
      50              55              60
Val Trp Val Ser Arg Ile Asn Thr Asp Gly Ser Ser Thr Ser Tyr Ala
      65              70              75              80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
      85              90              95
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
      100              105              110
Tyr Tyr Cys Ala Arg Ala Asp Asn Cys Ser Ser Thr Ser Cys Tyr Lys
      115              120              125
Cys Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
      130              135              140
Ser Ala Ser Ala Pro Thr Leu Phe Pro Leu Val Ser Cys Glu Asn Ser
145              150              155              160
Pro Ser Asp Thr Ser Ser Val Ala Val Gly Cys Leu Ala Gln Asp Phe
      165              170              175
Leu Pro Asp Ser Ile Thr Phe Ser Trp Lys Tyr Lys Asn Asn Ser Asp
      180              185              190
Ile Ser Ser Thr Arg Gly Phe Pro Ser Val Leu Arg Gly Gly Lys Tyr
      195              200              205
Ala Ala Thr Ser Gln Val Leu Leu Pro Ser Lys Asp Val Met Gln Gly
      210              215              220
Thr Asp Glu His Val Val Cys Lys Val Gln His Pro Asn Gly Asn Lys
225              230              235              240

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Glu Lys Asn Val Pro Leu Pro Val Ile Ala Glu Leu Pro Pro Lys Val
 245 250 255
 Ser Val Phe Val Pro Pro Arg Asp Gly Phe Phe Gly Asn Pro Arg Lys
 260 265 270
 Ser Lys Leu Ile Cys Gln Ala Thr Gly Phe Ser Pro Arg Gln Ile Gln
 275 280 285
 Val Ser Trp Leu Arg Glu Gly Lys Gln Val Gly Ser Gly Val Thr Thr
 290 295 300
 Asp Gln Val Gln Ala Glu Ala Lys Glu Ser Gly Pro Thr Thr Tyr Lys
 305 310 315 320
 Val Thr Ser Thr Leu Thr Ile Lys Glu Ser Asp Trp Leu Ser Gln Ser
 325 330 335
 Met Phe Thr Cys Arg Val Asp His Arg Gly Leu Thr Phe Gln Gln Asn
 340 345 350
 Ala Ser Ser Met Cys Val Pro Asp Gln Asp Thr Ala Ile Arg Val Phe
 355 360 365
 Ala Ile Pro Pro Ser Phe Ala Ser Ile Phe Leu Thr Lys Ser Thr Lys
 370 375 380
 Leu Thr Cys Leu Val Thr Asp Leu Thr Thr Tyr Asp Ser Val Thr Ile
 385 390 395 400
 Ser Trp Thr Arg Gln Asn Gly Glu Ala Val Lys Thr His Thr Asn Ile
 405 410 415
 Ser Glu Ser His Pro Asn Ala Thr Phe Ser Ala Val Gly Glu Ala Ser
 420 425 430
 Ile Cys Glu Asp Asp Trp Asn Ser Gly Glu Arg Phe Thr Cys Thr Val
 435 440 445
 Thr His Thr Asp Leu Pro Ser Pro Leu Lys Gln Thr Ile Ser Arg Pro
 450 455 460
 Lys Gly Val Ala Leu His Arg Pro Asp Val Tyr Leu Leu Pro Pro Ala
 465 470 475 480
 Arg Glu Gln Leu Asn Leu Arg Glu Ser Ala Thr Ile Thr Cys Leu Val
 485 490 495
 Thr Gly Phe Ser Pro Ala Asp Val Phe Val Gln Trp Met Gln Arg Gly
 500 505 510
 Gln Pro Leu Ser Pro Glu Lys Tyr Val Thr Ser Ala Pro Met Pro Glu
 515 520 525
 Pro Gln Ala Pro Gly Arg Tyr Phe Ala His Ser Ile Leu Thr Val Ser
 530 535 540
 Glu Glu Glu Trp Asn Thr Gly Glu Thr Tyr Thr Cys Val Val Ala His
 545 550 555 560
 Glu Ala Leu Pro Asn Arg Val Thr Glu Arg Thr Val Asp Lys Ser Thr
 565 570 575
 Gly Lys Pro Thr Leu Tyr Asn Val Ser Leu Val Met Ser Asp Thr Ala
 580 585 590
 Gly Thr Cys Tyr *
 595 596

<210> 1450
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 1450
 Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ala Leu Trp
 1 5 10 15
 Leu Cys Cys Ala Thr Pro Ala His Ala Leu Gln Cys Arg Asp Gly Tyr


```

      20      25      30
Glu Pro Cys Val Asn Glu Gly Met Cys Val Thr Tyr His Asn Gly Thr
      35      40      45
Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His
      50      55      60
Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val
      65      70      75      80
Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe
      85      90      95
Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser
      100      105      110
Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr
      115      120      125
Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp
      130      135      140
Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr
      145      150      155      160
Thr Val Ala Asn Gln Phe Ser Cys Lys Cys Leu Thr Gly Phe Thr Gly
      165      170      175
Gln Lys Cys Glu Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys
      180      185      190
Gln His Gly Gly Ile Cys Leu Asn Leu Pro Gly Ser Tyr Gln Cys Gln
      195      200      205
Cys Leu Gln Gly Phe Thr Gly Gln Tyr Cys Asp Ser Leu Tyr Val Pro
      210      215      220
Cys Ala Pro Ser Pro Cys Val Asn Gly Gly Thr Cys Arg Gln Thr Gly
      225      230      235      240
Asp Phe Thr Phe Glu Cys Asn Cys Leu Pro Glu Thr Val Arg Arg Gly
      245      250      255
Thr Glu Leu Trp Glu Arg Asp Arg Glu Val Trp Asn Gly Lys Glu His
      260      265      270
Asp Glu Asn *
      275

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<210> 1451
<211> 121
<212> PRT
<213> Homo sapiens

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      <400> 1451
Met Glu Ser Gly Leu Ser Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
      1      5      10      15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
      20      25      30
Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Arg Phe
      35      40      45
Asp Glu Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
      50      55      60
Glu Trp Val Gly Gly Ile Ser Trp Asn Arg Asp Ser Ile Ala Tyr Ala
      65      70      75      80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Ser
      85      90      95
Tyr Val Tyr Leu Gln Met Asn Ser Leu Arg His Glu Asp Thr Ala Leu
      100      105      110
Tyr Tyr Cys Thr Lys Leu Arg Ser Ser
      115      120      121

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<210> 1452
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1452
 Met Glu Arg Gly Asn Ala Leu Val Val Leu Arg Ser Leu Leu Trp Pro
 1 5 10 15
 Gly Leu Thr Phe Tyr His Ala Pro Arg Thr Lys Asn Tyr Gly Tyr Val
 20 25 30
 Tyr Val Gly Thr Gly Glu Lys Asn Met Asp Leu Pro Phe Met Leu *
 35 40 45 47

<210> 1453
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1453
 Met Ile Thr Val Gln Phe Ser Tyr Thr Ala Val Lys Trp Leu Leu Asn
 1 5 10 15
 Cys Phe Val Leu Ile Leu Tyr Val Ile Leu Ser Ile Leu Phe Gln Val
 20 25 30
 Ser Gln Lys Asn Ser Ser Lys Leu Gly Arg Phe Lys Asn Leu Phe Asn
 35 40 45
 His Lys Glu Cys Ser Lys Leu Leu Phe Asn Arg Asn Gln Ala Gln Thr
 50 55 60
 Leu Glu Leu Thr Ala Asp Arg Ile Arg Phe Gly Leu Phe Pro Glu Trp
 65 70 75 80
 Lys His Phe Ser His Thr Thr Ser Leu Cys Thr Ala Lys Met Leu Ala
 85 90 95
 Tyr Pro Leu Trp Phe Pro Ser Phe Ser Leu Ala Ser Gln Arg Asn Leu
 100 105 110
 Pro Pro His Pro Leu Tyr Tyr Ile Phe Tyr *
 115 120 122

<210> 1454
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 1454
 Met Arg Glu Trp Trp Val Gln Val Gly Leu Leu Ala Val Pro Leu Leu
 1 5 10 15
 Ala Ala Tyr Leu His Ile Pro Pro Pro Gln Leu Ser Pro Ala Leu His
 20 25 30
 Ser Trp Lys Ser Ser Gly Lys Phe Phe Thr Tyr Lys Gly Leu Arg Ile
 35 40 45
 Phe Tyr Gln Asp Ser Val Gly Val Val Gly Ser Pro Glu Ile Val Val

```

      50              55              60
Leu Leu His Gly Phe Pro Thr Ser Ser Tyr Asp Trp Tyr Lys Ile Trp
 65              70              75              80
Glu Gly Leu Thr Leu Arg Phe His Arg Val Ile Ala Leu Asp Phe Leu
      85              90              95
Gly Phe Gly Phe Ser Asp Lys Pro Arg Pro His His Tyr Ser Ile Phe
      100              105              110
Glu Gln Ala Ser Ile Val Glu Ala Leu Leu Arg His Leu Gly Leu Gln
      115              120              125
Asn Arg Arg Ile Asn Leu Leu Ser His Asp Tyr Gly Asp Ile Val Ala
      130              135              140
Gln Glu Leu Leu Tyr Arg Tyr Lys Gln Asn Arg Ser Gly Arg Leu Thr
      145              150              155              160
Ile Lys Ser Leu Cys Leu Ser Asn Gly Gly Ile Phe Pro Glu Thr His
      165              170              175
Arg Pro Leu Leu Leu Gln Lys Leu Leu Lys Asp Gly Gly Val Leu Ser
      180              185              190
Pro Ile Leu Thr Arg Leu Met Asn Phe Phe Val Phe Ser Arg Gly Leu
      195              200              205
Thr Pro Val Phe Gly Pro Tyr Thr Arg Pro Ser Glu Ser Glu Leu Trp
      210              215              220
Asp Met Trp Ala Gly Ile Arg Asn Asn Asp Gly Asn Leu Val Ile Asp
      225              230              235              240
Ser Leu Leu Gln Tyr Ile Asn Gln Arg Lys Lys Phe Arg Arg Arg Trp
      245              250              255
Val Gly Ala Leu Ala Ser Val Thr Ile Pro Ile His Phe Ile Tyr Gly
      260              265              270
Pro Leu Asp Pro Val Asn Pro Tyr Pro Glu Phe Leu Glu Leu Tyr Arg
      275              280              285
Lys Thr Leu Pro Arg Ser Thr Val Ser Ile Leu Asp Asp His Ile Ser
      290              295              300
His Tyr Pro Gln Leu Glu Asp Pro Met Gly Phe Leu Asn Ala Tyr Met
      305              310              315              320
Gly Phe Ile Asn Ser Phe *
      325 326

```

```

<210> 1455
<211> 57
<212> PRT
<213> Homo sapiens

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```

      <400> 1455
Met Ile Leu Leu Lys Val Cys Ser Ala Ala Ser Leu Leu Gly Glu Gly
  1              5              10              15
Phe Met Asn Gln Val Thr Ser Thr Asn Lys Ala Ser Leu Ser Leu Leu
      20              25              30
Ser Leu Thr Met Lys Val Ala Val Asn Lys Gly Lys Lys Glu Arg Glu
      35              40              45
Leu Phe Ile Pro Phe Gln Phe Gln *
      50              55 56

```

```

<210> 1456
<211> 48
<212> PRT

```

<213> Homo sapiens

<400> 1456

```

Met His Cys Ile Phe Ser Cys Leu Leu Trp Cys Ile Gln Leu Pro Ser
 1          5          10          15
Met Leu Ser Val Leu Lys Thr Gln Pro Ser Lys Asn His Pro Leu Trp
          20          25          30
Pro Cys Lys Tyr Ala Tyr Asn Ile Phe Phe Phe Leu Cys Ile Ile *
          35          40          45          47

```

<210> 1457

<211> 459

<212> PRT

<213> Homo sapiens

<400> 1457

```

Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Leu Phe Lys
 1          5          10          15
Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
          20          25          30
Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
          35          40          45
Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
          50          55          60
Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
          65          70          75          80
Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
          85          90          95
Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln
          100          105          110
Arg Ile Val Gln Leu Ile Gln Asp Thr Arg Ile His Ile Leu Pro Ser
          115          120          125
Met Asn Pro Asp Gly Tyr Glu Val Ala Ala Ala Gln Gly Pro Asn Lys
          130          135          140
Pro Gly Tyr Leu Val Gly Arg Asn Asn Ala Asn Gly Val Asp Leu Asn
          145          150          155          160
Arg Asn Phe Pro Asp Leu Asn Thr Tyr Ile Tyr Tyr Asn Glu Lys Tyr
          165          170          175
Gly Gly Pro Asn His His Leu Pro Leu Pro Asp Asn Trp Lys Ser Gln
          180          185          190
Val Glu Pro Glu Thr Arg Ala Val Ile Arg Trp Met His Ser Phe Asn
          195          200          205
Phe Val Leu Ser Ala Asn Leu His Gly Gly Ala Val Val Ala Asn Tyr
          210          215          220
Pro Tyr Asp Lys Ser Phe Glu His Arg Val Arg Gly Val Arg Arg Thr
          225          230          235          240
Ala Ser Thr Pro Thr Pro Asp Asp Lys Leu Phe Gln Lys Leu Ala Lys
          245          250          255
Val Tyr Ser Tyr Ala His Gly Trp Met Phe Gln Gly Trp Asn Cys Gly
          260          265          270
Asp Tyr Phe Pro Asp Gly Ile Thr Asn Gly Ala Ser Trp Tyr Ser Leu
          275          280          285
Ser Lys Gly Met Gln Asp Phe Asn Tyr Leu His Thr Asn Cys Phe Glu
          290          295          300
Ile Thr Leu Glu Leu Ser Cys Asp Lys Phe Pro Pro Glu Glu Glu Leu

```

```

305          310          315          320
Gln Arg Glu Trp Leu Gly Asn Arg Glu Ala Leu Ile Gln Phe Leu Glu
          325          330          335
Gln Val His Gln Gly Ile Lys Gly Met Val Leu Asp Glu Asn Tyr Asn
          340          345          350
Asn Leu Ala Asn Ala Val Ile Ser Val Ser Gly Ile Asn His Asp Val
          355          360          365
Thr Ser Gly Asp His Gly Asp Tyr Phe Arg Leu Leu Leu Pro Gly Ile
          370          375          380
Tyr Thr Val Ser Ala Thr Ala Pro Gly Tyr Asp Pro Glu Thr Val Thr
385          390          395          400
Val Thr Val Gly Pro Ala Glu Pro Thr Leu Val Asn Phe His Leu Lys
          405          410          415
Arg Ser Ile Pro Gln Val Ser Pro Val Arg Arg Ala Pro Ser Arg Arg
          420          425          430
His Gly Val Arg Ala Lys Val Gln Pro Gln Pro Arg Lys Lys Glu Met
          435          440          445
Glu Met Arg Gln Leu Gln Arg Gly Pro Ala *
          450          455          458

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<210> 1458
<211> 463
<212> PRT
<213> Homo sapiens

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```

<400> 1458
Met Ala Arg Val Leu Gly Ala Pro Val Ala Leu Gly Leu Trp Ser Leu
 1          5          10          15
Cys Trp Ser Leu Ala Ile Ala Thr Pro Leu Pro Pro Thr Ser Ala His
          20          25          30
Gly Asn Val Ala Glu Gly Glu Thr Lys Pro Asp Pro Asp Val Thr Glu
          35          40          45
Arg Cys Ser Asp Gly Trp Ser Phe Asp Ala Thr Thr Leu Asp Asp Asn
          50          55          60
Gly Thr Met Leu Phe Phe Lys Gly Glu Phe Val Trp Lys Ser His Lys
          65          70          75          80
Trp Asp Arg Glu Leu Ile Ser Glu Arg Trp Lys Asn Phe Pro Ser Pro
          85          90          95
Val Asp Ala Ala Phe Arg Gln Gly His Asn Ser Val Phe Leu Ile Lys
          100          105          110
Gly Asp Lys Val Trp Val Tyr Pro Pro Glu Lys Lys Glu Lys Gly Tyr
          115          120          125
Pro Lys Leu Leu Gln Asp Glu Phe Pro Gly Ile Pro Ser Pro Leu Asp
          130          135          140
Ala Ala Val Glu Cys His Arg Gly Glu Cys Gln Ala Glu Gly Val Leu
145          150          155          160
Phe Phe Gln Gly Asp Arg Glu Trp Phe Trp Asp Leu Ala Thr Gly Thr
          165          170          175
Met Lys Glu Arg Ser Trp Pro Ala Val Gly Asn Cys Ser Ser Ala Leu
          180          185          190
Arg Trp Leu Gly Arg Tyr Tyr Cys Phe Gln Gly Asn Gln Phe Leu Arg
          195          200          205
Phe Asp Pro Val Arg Gly Glu Val Pro Pro Arg Tyr Pro Arg Asp Val
          210          215          220
Arg Asp Tyr Phe Met Pro Cys Pro Gly Arg Gly His Gly His Arg Asn
225          230          235          240

```

Gly Thr Gly His Gly Asn Ser Thr His His Gly Pro Glu Tyr Met Arg
 245 250 255
 Cys Ser Pro His Leu Val Leu Ser Ala Leu Thr Ser Asp Asn His Gly
 260 265 270
 Ala Thr Tyr Ala Phe Ser Gly Thr His Tyr Trp Arg Leu Asp Thr Ser
 275 280 285
 Arg Asp Gly Trp His Ser Trp Pro Ile Ala His Gln Trp Pro Gln Gly
 290 295 300
 Pro Ser Ala Val Asp Ala Ala Phe Ser Trp Glu Glu Lys Leu Tyr Leu
 305 310 315 320
 Val Gln Gly Thr Gln Val Tyr Val Phe Leu Thr Lys Gly Gly Tyr Thr
 325 330 335
 Leu Val Ser Gly Tyr Pro Lys Arg Leu Glu Lys Glu Val Gly Thr Pro
 340 345 350
 His Gly Ile Ile Leu Asp Ser Val Asp Ala Ala Phe Ile Cys Pro Gly
 355 360 365
 Ser Ser Arg Leu His Ile Met Ala Gly Arg Arg Leu Trp Trp Leu Asp
 370 375 380
 Leu Lys Ser Gly Ala Gln Ala Thr Trp Thr Glu Leu Pro Trp Pro His
 385 390 395 400
 Glu Lys Val Asp Gly Ala Leu Cys Met Glu Lys Ser Leu Gly Pro Asn
 405 410 415
 Ser Cys Ser Ala Asn Gly Pro Gly Leu Tyr Leu Ile His Gly Pro Asn
 420 425 430
 Leu Tyr Cys Tyr Ser Asp Val Glu Lys Leu Asn Ala Ala Lys Ala Leu
 435 440 445
 Pro Gln Pro Gln Asn Val Thr Ser Leu Leu Gly Cys Thr His *
 450 455 460 462

<210> 1459

<211> 187

<212> PRT

<213> Homo sapiens

<400> 1459

Met Gln Pro Ile Val Ala Lys Ala Leu Val Val Leu Leu Glu Val His
 1 5 10 15
 Pro Leu Gln Asp Gln Ala Glu Ser Gly Arg Leu Gly His Val His Leu
 20 25 30
 Leu Cys Ala Pro Ala Ala Leu Gln His Ala Leu Arg Gly Ile Thr Leu
 35 40 45
 His Asn Gly His His Gln Ala Asp His Leu Pro Asp Leu Met His His
 50 55 60
 Glu Ala Leu Ala Leu His Pro Asp His Arg Lys Leu Gln Ala Leu Pro
 65 70 75 80
 His Lys Gly Phe Leu Ala Val His Leu Gln Asp Val Ala Ala Gly Thr
 85 90 95
 Gly Ile Leu Arg Pro Leu Leu Arg Gly Glu Ile Val Glu Val Val Arg
 100 105 110
 Ala Leu Val Ala Gly Gln Glu Pro Val Asp Leu Leu Gln Arg Leu Gly
 115 120 125
 Ala Gln Ala Val Gly Leu Ile Leu Asn Val Pro Val Leu Val Arg Lys
 130 135 140
 Gly Lys Arg Gly Gln Gln Val Ala Ile Gly Pro Gly Ile Thr Ser Val
 145 150 155 160
 Leu Gly Val Lys Pro Ala Arg Asp Pro Leu Gln Ser Gln Asn Pro Asn

165 170 175
 Val Arg Gly Lys Val Ala Val Asp Leu Phe *
 180 185 186

<210> 1460
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 1460
 Met Lys Phe Ala Leu Phe Thr Ser Gly Val Ala Leu Thr Leu Ser Phe
 1 5 10 15
 Val Phe Met Tyr Ala Lys Cys Glu Asn Glu Pro Phe Ala Gly Val Ser
 20 25 30
 Glu Ser Tyr Asn Gly Thr Gly Glu Leu Gly Asn Leu Ile Ala Pro Cys
 35 40 45
 Asn Ala Asn Cys Asn Cys Ser Arg Ser Tyr Tyr Tyr Pro Val Cys Gly
 50 55 60
 Asp Gly Val Gln Tyr Phe Ser Pro Cys Phe Ala Gly Cys Ser Asn Pro
 65 70 75 80
 Val Ala His Arg Lys Pro Lys Val Tyr Tyr Asn Cys Ser Cys Ile Glu
 85 90 95
 Arg Lys Thr Glu Ile Thr Ser Thr Ala Glu Thr Phe Gly Phe Glu Ala
 100 105 110
 Asn Ala Gly Lys Cys Glu Thr His Cys Ala Lys Leu Ala Ile Phe Leu
 115 120 125
 Cys Ile Val Phe Ile Gly Asn Ile Phe Thr Phe Met Ala Arg Ser Pro
 130 135 140
 Ile Thr Gly Ala Ile Pro Arg Gly Gly Asn His Arg Gln Arg Pro Pro
 145 150 155 160
 Thr Leu Gly Ile Gln Phe Met Ala Leu Arg Thr Leu Trp Thr Thr Pro
 165 170 175
 Trp Pro Ser Lys Thr Gly Cys Pro Ile His Gln Pro Gly Ser Leu Trp
 180 185 190
 Glu Lys Leu Gly Trp Arg Pro Leu Lys Thr Leu Arg Arg Pro Lys Pro
 195 200 205
 Ser Trp Asn Ala Leu Leu Ala Leu Ala His Pro Arg Ser Phe Gln
 210 215 220 223

<210> 1461
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 1461
 Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
 1 5 10 15
 Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
 20 25 30
 Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
 35 40 45
 Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
 50 55 60

```

Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
65          70          75          80
Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
          85          90          95
His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp
          100          105          110
Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
          115          120          125
Ala Gln Leu Gly Ser Leu Pro Pro Pro Asp Pro Arg Thr Thr His Arg
          130          135          140
Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
145          150          155          160
Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
          165          170          175
Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
          180          185          190
His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
          195          200          205
His *
209

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<210> 1462
<211> 56
<212> PRT
<213> Homo sapiens

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<400> 1462
Met Ala Val Arg Val Leu Trp Gly Gly Leu Ser Leu Leu Arg Val Leu
1          5          10          15
Trp Cys Leu Leu Pro Gln Thr Gly Tyr Val His Pro Asp Glu Phe Phe
          20          25          30
Gln Ser Pro Glu Val Met Ala Gly Lys Thr Pro His Val Trp Leu Arg
          35          40          45
Gln Ala Ala Ala Glu Ser Ala *
          50          55

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<210> 1463
<211> 66
<212> PRT
<213> Homo sapiens

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```

<400> 1463
Met Glu Asn Cys Val Gly Glu Arg Asn His Pro Leu Phe Val Val Tyr
1          5          10          15
Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Cys
          20          25          30
Pro Gly Val Cys Gly Cys Gly Pro Ala Gly Ser Cys Ser Pro Pro Ser
          35          40          45
Cys Cys Trp Pro Ser Ser Arg Gly Gly Gln Pro Gly Ser Arg Leu Ala
          50          55          60
Pro Leu
65 66

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<210> 1464
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 1464
 Met Val Trp Arg Arg Leu Leu Arg Lys Arg Trp Val Leu Ala Leu Val
 1 5 10 15
 Phe Gly Leu Ser Leu Val Tyr Phe Leu Ser Ser Thr Phe Lys Gln Glu
 20 25 30
 Glu Arg Ala Val Arg Asp Arg Asn Leu Leu Gln Val His Asp His Asn
 35 40 45
 Gln Pro Ile Pro Trp Lys Val Gln Phe Asn Leu Gly Asn Ser Ser Arg
 50 55 60
 Pro Ser Asn Gln Cys Arg Asn Ser Ile Gln Gly Lys His Leu Ile Thr
 65 70 75 80
 Asp Glu Leu Gly Tyr Val Cys Glu Arg Lys Asp Leu Leu Val Asn Gly
 85 90 95
 Cys Cys Asn Val Asn Val Pro Ser Thr Lys Gln Tyr Cys Cys Asp Gly
 100 105 110
 Cys Trp Pro Asn Gly Cys Cys Ser Ala Tyr Glu Tyr Cys Val Ser Cys
 115 120 125
 Cys Leu Gln Pro Asn Lys Gln Leu Leu Leu Glu Arg Phe Leu Asn Arg
 130 135 140
 Ala Ala Val Ala Phe Gln Asn Leu Phe Met Ala Val Glu Asp His Phe
 145 150 155 160
 Glu Leu Cys Leu Ala Lys Cys Arg Thr Ser Ser Gln Ser Val Gln His
 165 170 175
 Glu Asn Thr Tyr Arg Asp Pro Ile Ala Lys Tyr Cys Tyr Gly Glu Ser
 180 185 190
 Pro Pro Glu Leu Phe Pro Ala *
 195 199

<210> 1465
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1465
 Met Gln Leu Ile Arg Arg Ser His Asn Arg His Trp Phe Arg Ser Ala
 1 5 10 15
 Ile Thr Phe Leu Met Cys Lys Gly Ile Thr Leu Leu Trp Leu Trp Lys
 20 25 30
 Leu Leu Thr Gly Asn Asp Cys Ile Glu Tyr Ile Arg Lys *
 35 40 45

<210> 1466
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1466
 Met Arg Leu Leu Phe Ser Ser Gln Val Asn Ser Lys Arg Leu Thr Ala
 1 5 10 15
 Ser Arg Ala Phe Leu Val Leu Val Pro Ala His Leu Ser Tyr Leu Leu
 20 25 30
 Ala Leu Pro Ser Ile Pro Ala Thr Arg Gly Phe Trp Phe Lys Asp Thr
 35 40 45
 Val Phe Leu Ser Cys Ser Ala *
 50 55

<210> 1467
 <211> 366
 <212> PRT
 <213> Homo sapiens

<400> 1467
 Met Arg Gly Gln Val Val Thr Leu Ile Leu Leu Leu Leu Lys Val
 1 5 10 15
 Tyr Gln Gly Lys Gly Cys Gln Gly Ser Ala Asp His Val Val Ser Ile
 20 25 30
 Ser Gly Val Pro Leu Gln Leu Gln Pro Asn Ser Ile Gln Thr Lys Val
 35 40 45
 Asp Ser Ile Ala Trp Lys Lys Leu Leu Pro Ser Gln Asn Gly Phe His
 50 55 60
 His Ile Leu Lys Trp Glu Asn Gly Ser Leu Pro Ser Asn Thr Ser Asn
 65 70 75 80
 Asp Arg Phe Ser Phe Ile Val Lys Asn Leu Ser Leu Leu Ile Lys Ala
 85 90 95
 Ala Gln Gln Gln Asp Ser Gly Leu Tyr Cys Leu Glu Val Thr Ser Ile
 100 105 110
 Ser Gly Lys Val Gln Thr Ala Thr Phe Gln Val Phe Val Phe Asp Lys
 115 120 125
 Val Glu Lys Pro Arg Leu Gln Gly Gln Gly Lys Ile Leu Asp Arg Gly
 130 135 140
 Arg Cys Gln Val Ala Leu Ser Cys Leu Val Ser Arg Asp Gly Asn Val
 145 150 155 160
 Ser Tyr Ala Trp Tyr Arg Gly Ser Lys Leu Ile Gln Thr Ala Gly Asn
 165 170 175
 Leu Thr Tyr Leu Asp Glu Glu Val Asp Ile Asn Gly Thr His Thr Tyr
 180 185 190
 Thr Cys Asn Val Ser Asn Pro Val Ser Trp Glu Ser His Thr Leu Asn
 195 200 205
 Leu Thr Gln Asp Cys Gln Asn Ala His Gln Glu Phe Arg Phe Trp Pro
 210 215 220
 Phe Leu Val Ile Ile Val Ile Leu Ser Ala Leu Phe Leu Gly Thr Leu
 225 230 235 240
 Ala Cys Phe Cys Val Trp Arg Arg Lys Arg Lys Glu Lys Gln Ser Glu
 245 250 255
 Thr Ser Pro Lys Glu Phe Leu Thr Ile Tyr Glu Asp Val Lys Asp Leu
 260 265 270
 Lys Thr Arg Arg Asn His Glu Gln Glu Gln Thr Phe Pro Gly Gly Gly
 275 280 285
 Ser Thr Ile Tyr Ser Met Ile Gln Ser Gln Ser Ser Ala Pro Thr Ser
 290 295 300
 Gln Glu Pro Ala Tyr Thr Leu Tyr Ser Leu Ile Gln Pro Ser Arg Lys

```

305              310              315              320
Ser Gly Ser Arg Lys Arg Asn His Ser Pro Ser Phe Asn Ser Thr Ile
              325              330              335
Tyr Glu Val Ile Gly Lys Ser Gln Pro Lys Ala Gln Asn Pro Ala Arg
              340              345              350
Leu Ser Arg Lys Glu Leu Glu Asn Phe Asp Val Tyr Ser *
              355              360              365

```

<210> 1468
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

<400> 1468
Met Thr Asp Phe Phe Leu Cys Ile His Ser Phe Tyr Leu Cys Val Leu
 1              5              10              15
Leu Gln Ala Ser Leu Asp Met Leu Ser Val Lys Ser Phe Ser Phe Lys
              20              25              30
Val Leu Cys Leu Met Lys Ala Lys Glu Lys Pro Asn Thr Thr Ser Cys
              35              40              45
His Leu Val Ile Asp Ser Asn Ser Thr
 50              55              57

```

<210> 1469
 <211> 110
 <212> PRT
 <213> Homo sapiens

```

<400> 1469
Met Leu Glu Ile Leu Leu Lys Leu Val Arg Leu Leu Thr Thr Gln Pro
 1              5              10              15
Tyr Leu Thr Leu Phe Gln Ala Val Arg Asn Leu Ala Leu Asn Leu Ser
              20              25              30
Thr Ser Ser Gly Ser Leu Gly Pro Ala Pro Gly Glu Pro Arg Ala Gly
              35              40              45
Pro Leu Ala Pro Glu Gly Pro Arg Pro Leu Gly Ser Gly Pro Leu Gly
 50              55              60
Pro Arg Gly Leu Arg Ala Ser Gly Arg Arg Arg Ala Ser Ser Gly Leu
 65              70              75              80
Leu Leu Arg Tyr Cys Ala Ala Ala Gly Asp Thr Glu Phe Met Asp Ala
              85              90              95
Pro Gly Gly Arg Thr Glu Gly Pro Gly Gly Gly Leu Arg Pro
              100              105              110

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<210> 1470
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1470

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Met Met Cys Arg Cys Met Cys Ala Cys Val Cys Ala Pro Val Cys Val
 1           5           10           15
His Met His Gly Leu Ala Pro Ala Pro Ala Ile Trp Ile Glu Gln Phe
           20           25           30
Trp Val Glu Asn Phe Phe Ser Pro Phe Leu Lys Val Ser Phe Tyr Ser
           35           40           45
Leu Pro Val Cys Ile Glu Lys Ser Ser Ile *
      50           55           58

```

<210> 1471
 <211> 123
 <212> PRT
 <213> Homo sapiens

```

<400> 1471
Met Met His Phe Leu Thr Gly Gly Trp Lys Val Leu Phe Ala Cys Val
 1           5           10           15
Pro Pro Thr Glu Tyr Cys His Gly Trp Ala Cys Phe Gly Val Ser Ile
           20           25           30
Leu Val Ile Gly Leu Leu Thr Ala Leu Ile Gly Asp Leu Ala Ser His
           35           40           45
Phe Gly Cys Thr Val Gly Leu Lys Asp Ser Val Asn Ala Val Val Phe
           50           55           60
Val Ala Leu Gly Thr Ser Ile Pro Gly Asn Thr Leu Gly Asp Phe Gly
           65           70           75           80
Gly Val Gly Ser Gln Met Ser Gln Ala Gly Ala Thr Gln Asp Pro Ala
           85           90           95
Glu Met Arg His Val Arg Gln Gln Gly Gly Gly Ala Ala Gly Pro Val
           100           105           110
Arg Arg Arg Val His Arg Glu Arg Asp Pro Leu
           115           120           123

```

<210> 1472
 <211> 316
 <212> PRT
 <213> Homo sapiens

```

<400> 1472
Met Val Ser Ala Ser Gly Thr Ser Phe Phe Lys Gly Met Leu Leu Gly
 1           5           10           15
Ser Ile Ser Trp Val Leu Ile Thr Met Phe Gly Gln Ile His Ile Arg
           20           25           30
His Arg Gly Gln Thr Gln Asp His Glu His His His Leu Arg Pro Pro
           35           40           45
Asn Arg Asn Asp Phe Leu Asn Thr Ser Lys Val Ile Leu Leu Glu Leu
           50           55           60
Ser Lys Ser Ile Arg Val Phe Cys Ile Ile Phe Gly Glu Ser Glu Asp
           65           70           75           80
Glu Ser Tyr Trp Ala Val Leu Lys Glu Thr Trp Thr Lys His Cys Asp
           85           90           95
Lys Ala Glu Leu Tyr Asp Thr Lys Asn Asp Asn Leu Phe Asn Ile Glu
           100           105           110
Ser Asn Asp Arg Trp Val Gln Met Arg Thr Ala Tyr Lys Tyr Val Phe

```

```

      115              120              125
Glu Lys Asn Gly Asp Asn Tyr Asn Trp Phe Phe Leu Ala Leu Pro Thr
   130              135              140
Thr Phe Ala Val Ile Glu Asn Leu Lys Tyr Leu Leu Phe Thr Arg Asp
145              150              155              160
Ala Ser Gln Pro Phe Tyr Leu Gly His Thr Val Ile Phe Gly Asp Leu
      165              170              175
Glu Tyr Val Thr Val Glu Gly Gly Ile Val Leu Ser Arg Glu Leu Met
      180              185              190
Lys Arg Leu Asn Arg Leu Leu Asp Asn Ser Glu Thr Cys Ala Asp Gln
      195              200              205
Ser Val Ile Trp Lys Leu Ser Glu Asp Lys Gln Leu Ala Ile Cys Leu
      210              215              220
Lys Tyr Ala Gly Val His Ala Glu Asn Ala Glu Asp Tyr Glu Gly Arg
225              230              235              240
Asp Val Phe Asn Thr Lys Pro Ile Ala Gln Leu Ile Glu Glu Ala Leu
      245              250              255
Ser Asn Asn Pro Gln Gln Val Val Glu Gly Cys Cys Ser Asp Met Ala
      260              265              270
Ile Thr Phe Asn Gly Leu Thr Pro Gln Lys Met Glu Val Met Met Tyr
      275              280              285
Gly Leu Tyr Arg Leu Arg Ala Phe Gly His Tyr Phe Asn Asp Thr Leu
      290              295              300
Val Phe Leu Pro Pro Val Gly Ser Glu Asn Asp *
305              310              315

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<210> 1473
<211> 65
<212> PRT
<213> Homo sapiens

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      <400> 1473
Met Gln Cys Pro Pro Pro Phe Leu Gly Gln Trp Leu Leu Cys Pro Ala
  1              5              10              15
Ala Arg Gln Trp Gly Pro Gly Ala Gly Ser Pro Gly Pro Val Leu Val
      20              25              30
Pro Ala Gly Arg Arg Arg Pro Pro Pro Arg Ser Gly Pro Gln Arg Asp
      35              40              45
Ser Pro Ala Pro Val Arg Gly Pro Gln Phe His Ser Val Val Gly Pro
      50              55              60              64
*
```

```

<210> 1474
<211> 55
<212> PRT
<213> Homo sapiens

```

```

      <400> 1474
Met Ile Phe Met Arg Val Leu Met Leu Leu Cys Cys Met Asp Ser Leu
  1              5              10              15
Gly Ser Leu Asp Thr Phe Gln Trp Leu Ser Arg Val Leu Cys Pro Thr
      20              25              30

```

Glu Asn Leu Ile Phe Glu Leu Asn Gly Tyr Glu Leu Asn Ser Thr Trp
 35 40 45
 Phe Gly Trp Leu Asn Thr *
 50 54

<210> 1475
 <211> 128
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(128)
 <223> Xaa = any amino acid or nothing

<400> 1475
 Met Lys Phe Gln Leu Phe Leu Ser Tyr Val Phe Ile Thr Gln Val Phe
 1 5 10 15
 Ser Arg Pro Phe Gln Ser Asn Leu Gly Ser Leu Thr Pro Ala Ser Ser
 20 25 30
 Gln Ile Pro Leu Gln Leu Pro Lys Ala Leu Cys Val Arg Cys Leu Asn
 35 40 45
 Thr Val Xaa Xaa Xaa Xaa Xaa Thr Gly Phe Gly Lys Phe Gln Ile Thr
 50 55 60
 Ile Gln Ser Pro Gly Gly Pro Leu Val Leu Ala Arg Pro Trp Ala Ser
 65 70 75 80
 Lys Phe Pro Ser Pro Lys Phe Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Met
 85 90 95
 Gly Gly Lys Thr Phe Ala Tyr Gly Arg Ile Asn Pro Thr Arg Pro Ala
 100 105 110
 Lys Asn Xaa Xaa Xaa Xaa Xaa Xaa Ser Leu Ala Ser Leu Asn Pro Thr
 115 120 125 128

<210> 1476
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 1476
 Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
 1 5 10 15
 Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
 20 25 30
 Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
 35 40 45
 Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
 50 55 60
 Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
 65 70 75 80
 Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
 85 90 95
 His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp

```

      100      105      110
Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
      115      120      125
Ala Gln Leu Gly Ser Leu Pro Pro Pro Asp Pro Arg Thr Thr His Arg
      130      135      140
Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
145      150      155      160
Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
      165      170      175
Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
      180      185      190
His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
      195      200      205
His *
209

```

```

<210> 1477
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1477
Met His Thr Cys Gln Ile Tyr Ile Tyr Ser Thr Asn Val Thr Phe Leu
 1      5      10      15
Phe Phe Val Leu Asp Val Arg Ala Cys Ser Tyr Val Arg Tyr Leu His
      20      25      30
Lys Leu Leu His Tyr Phe Phe Leu Cys Asn Thr Phe Leu Phe Val Tyr
      35      40      45
Val Val Gln Ile Tyr Phe Phe Pro *
      50      55      56

```

```

<210> 1478
<211> 97
<212> PRT
<213> Homo sapiens

```

```

<400> 1478
Met Arg Ile Trp Ser Arg Ala Val Gly Asp Gly Pro Ala Ala Val Cys
 1      5      10      15
Cys Pro Leu Arg Ser Trp Cys Leu Leu Leu Trp Ala Leu Asp Ser Leu
      20      25      30
Asp Pro Ala Ala Val Thr Thr His Ala Ser Ala Met Leu Ser Gly Val
      35      40      45
Phe Thr Pro Pro Phe Val Ser Ala Leu Pro Val Gln Trp Met Gln Met
      50      55      60
Pro Val Leu Ser Phe Leu Ser Leu Thr Gly Ser Ser Val Tyr Val His
      65      70      75      80
Met Ala Leu Leu Ser Gly His Gln Gly Ser Asp Thr Cys Ser Gly Leu
      85      90      95      96
*
```

<210> 1479
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1479
 Met Leu Ser Ile Ser Tyr Phe Ser Asn Ser Leu Met Leu Arg Leu Val
 1 5 10 15
 Pro Leu Ala Ala Tyr Val Leu Ser Tyr Leu Ile Cys Ser Val Leu Leu
 20 25 30
 His Ile Asn Gln Thr Thr Val Thr Thr Tyr Arg Gly Arg Lys Gln Arg
 35 40 45
 Lys Lys Ile Gln Phe Ala Thr Gly Asn His Gln Ser Ala Gln Ser Tyr
 50 55 60
 Ser Glu Leu Leu Ser Leu Ser Leu Ser Phe Ser Ser Leu Leu Ser Pro
 65 70 75 80
 Val Phe Ser Leu Pro Ser Trp Ser Leu Pro Ser Leu Pro Pro Phe Phe
 85 90 95
 Ser His Ser Pro His Gln Lys Gly Ile Met Met Val Pro Arg Ser Val
 100 105 110 112
 *

<210> 1480
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1480
 Met Arg Leu Ser Val Cys Leu Leu Leu Leu Thr Leu Ala Leu Cys Cys
 1 5 10 15
 Tyr Arg Ala Asn Ala Val Val Cys Gln Ala Leu Gly Ser Glu Ile Thr
 20 25 30
 Gly Phe Leu Leu Ala Gly Lys Pro Val Phe Lys Phe Gln Leu Ala Lys
 35 40 45
 Phe Lys Ala Pro Leu Glu Ala Val Ala Ala Lys Met Glu Val Lys Lys
 50 55 60
 Cys Val Asp Thr Met Ala Tyr Glu Lys Arg Val Leu Ile Thr Lys Thr
 65 70 75 80
 Leu Gly Lys Ile Ala Glu Lys Cys Asp Arg *
 85 90

<210> 1481
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1481
 Met Pro Gly Ser Ile Leu Ser Asn Leu His Val Leu Leu Lys Tyr Leu
 1 5 10 15
 Phe Thr Phe Ala Glu Val Phe Leu Val Pro Gly Pro Phe Asn Val Leu

			20					25					30				
Phe	Leu	Ser	Leu	Arg	Leu	Glu	Thr	Leu	Thr	Phe	Phe	Val	Leu	Trp	Leu		
		35					40					45					
Val	Pro	Tyr	Leu	Ile	*												
	50			53													

<210> 1482
 <211> 56
 <212> PRT
 <213> Homo sapiens

Met	Glu	Arg	Trp	Leu	Gly	Leu	Ile	Gln	Thr	Leu	Trp	Leu	Pro	Ala	His		
1				5					10					15			
Ser	Gly	Pro	Leu	Gly	Arg	Ala	Trp	Val	Val	Pro	Arg	Ala	Thr	Ser	Gly		
		20						25					30				
His	Tyr	Trp	Gly	Gly	Lys	Gly	Thr	Asn	Glu	Gly	Gly	Gln	Asp	Lys	Gly		
	35						40					45					
His	Phe	Pro	Leu	Pro	Pro	Arg	*										
	50					55											

<210> 1483
 <211> 202
 <212> PRT
 <213> Homo sapiens

Met	Leu	Leu	Leu	Leu	Gly	Leu	Cys	Leu	Gly	Leu	Ser	Leu	Cys	Val	Gly		
1				5					10					15			
Ser	Gln	Glu	Glu	Ala	Gln	Ser	Trp	Gly	His	Ser	Ser	Glu	Gln	Asp	Gly		
		20						25					30				
Leu	Arg	Val	Pro	Arg	Gln	Val	Arg	Leu	Leu	Gln	Arg	Leu	Lys	Thr	Lys		
	35						40					45					
Pro	Leu	Met	Thr	Glu	Phe	Ser	Val	Lys	Ser	Thr	Ile	Ile	Ser	Arg	Tyr		
	50					55				60							
Ala	Phe	Thr	Thr	Val	Ser	Cys	Arg	Met	Leu	Asn	Arg	Ala	Ser	Glu	Asp		
	65				70					75				80			
Gln	Asp	Ile	Glu	Phe	Gln	Met	Gln	Ile	Pro	Ala	Ala	Ala	Phe	Ile	Thr		
				85					90					95			
Asn	Phe	Thr	Met	Leu	Ile	Gly	Asp	Lys	Val	Tyr	Gln	Gly	Glu	Ile	Thr		
		100					105						110				
Glu	Arg	Glu	Lys	Lys	Ser	Gly	Asp	Arg	Val	Lys	Glu	Lys	Arg	Asn	Lys		
	115						120					125					
Thr	Thr	Glu	Glu	Asn	Gly	Glu	Lys	Gly	Thr	Glu	Ile	Phe	Arg	Ala	Ser		
	130				135						140						
Ala	Val	Ile	Pro	Ser	Lys	Asp	Lys	Ala	Ala	Phe	Phe	Leu	Ser	Tyr	Glu		
	145				150					155				160			
Glu	Leu	Leu	Gln	Arg	Leu	Gly	Lys	Tyr	Glu	His	Ser	Ile	Ser	Val			
			165					170					175				
Arg	Pro	Gln	Gln	Leu	Ser	Gly	Arg	Leu	Ser	Val	Asp	Val	Asn	Ile	Leu		
		180					185						190				
Glu	Ser	Ala	Gly	Ile	Ala	Ser	Leu	Glu	Val								
	195						200		202								

<210> 1484
 <211> 477
 <212> PRT
 <213> Homo sapiens

<400> 1484
 Met Pro Gln Leu Ser Leu Ser Trp Leu Gly Leu Gly Gln Val Ala Ala
 1 5 10 15
 Phe Pro Trp Leu Leu Leu Leu Leu Ala Gly Ala Ser Arg Leu Leu Ala
 20 25 30
 Gly Phe Leu Ala Trp Thr Tyr Ala Phe Tyr Asp Asn Cys Arg Arg Leu
 35 40 45
 Gln Tyr Phe Pro Gln Pro Pro Lys Gln Lys Trp Phe Trp Gly Gln Pro
 50 55 60
 Gly Pro Pro Ala Ile Ala Pro Lys Asp Asp Leu Ser Ile Arg Phe Leu
 65 70 75 80
 Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu Ser Gly Gly Asp Lys Trp
 85 90 95
 Ser Arg His Arg Arg Met Leu Thr Pro Ala Phe His Phe Asn Ile Leu
 100 105 110
 Lys Ser Tyr Ile Thr Ile Phe Asn Lys Ser Ala Asn Ile Met Leu Asp
 115 120 125
 Lys Trp Gln His Leu Ala Ser Glu Gly Ser Ser Cys Leu Asp Met Phe
 130 135 140
 Glu His Ile Ser Leu Met Thr Leu Asp Ser Leu Gln Lys Cys Ile Phe
 145 150 155 160
 Ser Phe Asp Ser His Cys Gln Glu Arg Pro Ser Glu Tyr Ile Ala Thr
 165 170 175
 Ile Leu Glu Leu Ser Ala Leu Val Glu Lys Arg Ser Gln His Ile Leu
 180 185 190
 Gln His Met Asp Phe Leu Tyr Tyr Leu Ser His Asp Gly Arg Arg Phe
 195 200 205
 His Arg Ala Cys Arg Leu Val His Asp Phe Thr Asp Ala Val Ile Arg
 210 215 220
 Glu Arg Arg Arg Thr Leu Pro Thr Gln Gly Ile Asp Asp Phe Phe Lys
 225 230 235 240
 Asp Lys Ala Lys Ser Lys Thr Leu Asp Phe Ile Asp Val Leu Leu Leu
 245 250 255
 Ser Lys Asp Glu Asp Gly Lys Ala Leu Ser Asp Glu Asp Ile Arg Ala
 260 265 270
 Glu Ala Asp Thr Phe Met Phe Gly Gly His Asp Thr Thr Ala Ser Gly
 275 280 285
 Leu Ser Trp Val Leu Tyr Asn Leu Ala Arg His Pro Glu Tyr Gln Glu
 290 295 300
 Arg Cys Arg Gln Glu Val Gln Glu Leu Leu Lys Asp Arg Asp Pro Lys
 305 310 315 320
 Glu Ile Glu Trp Asp Asp Leu Ala Gln Leu Pro Phe Leu Thr Met Cys
 325 330 335
 Val Lys Glu Ser Leu Arg Leu His Pro Pro Ala Pro Phe Ile Ser Arg
 340 345 350
 Cys Cys Thr Gln Asp Ile Val Leu Pro Asp Gly Arg Val Ile Pro Lys
 355 360 365
 Gly Ile Thr Cys Leu Ile Asp Ile Ile Gly Val His His Asn Pro Thr
 370 375 380
 Val Trp Pro Asp Pro Glu Val Tyr Asp Pro Phe Arg Phe Asp Pro Glu

```

385          390          395          400
Asn Ser Lys Gly Arg Ser Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly
          405          410          415
Pro Arg Asn Cys Ile Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val
          420          425          430
Val Leu Ala Leu Met Leu Leu His Phe Arg Phe Leu Pro Asp His Thr
          435          440          445
Glu Pro Arg Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly Gly Leu
          450          455          460
Trp Leu Arg Val Glu Pro Leu Asn Val Ser Leu Gln *
          465          470          475 476

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<210> 1485
<211> 67
<212> PRT
<213> Homo sapiens

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```

<400> 1485
Met Ala Cys Cys Leu Phe Leu Asn Gly Ser Trp Leu Ser Met Ala Leu
 1          5          10          15
Lys Phe Phe Asn Cys Trp Gly Lys Lys Ile Lys Arg Ile Ile Phe Tyr
          20          25          30
Val Lys Ile Met Lys Phe Lys Phe Gln Cys Pro Gln Ile Asn Thr Ala
          35          40          45
Thr Tyr Ile His Leu His Gly Cys Phe Cys Thr Ser Met Ala Glu Leu
 50          55          60
Ser Ser *
65 66

```

```

<210> 1486
<211> 93
<212> PRT
<213> Homo sapiens

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```

<400> 1486
Met Gly Ser Ser Val Leu Ser Ile Trp Ile Leu Ser Pro Ser Ile Tyr
 1          5          10          15
Pro Ile Leu Ser Pro Leu Ala Met Pro Cys Leu Ser Arg Thr Asp Leu
          20          25          30
Ile Arg Val Arg Arg Ile Gln Gly Ala Trp Pro Ser Glu Gly Thr Ala
          35          40          45
Ser Ser Ile Arg Gly Trp Val Leu Thr Lys Leu Arg Met Ser Ser Gly
 50          55          60
Lys Ala Leu Glu Ala Leu Tyr Cys Ile Pro Gly Ala Ala Gln His Pro
 65          70          75          80
Gly Leu Gly Val Thr Arg Val Trp Ser Gly Arg Thr *
          85          90          92

```

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<210> 1487
<211> 88
<212> PRT

```

<213> Homo sapiens

<400> 1487

```

Met Gln Lys Val Thr Leu Gly Leu Leu Val Phe Leu Ala Gly Phe Pro
 1          5          10          15
Val Leu Asp Ala Asn Asp Leu Glu Asp Lys Asn Ser Pro Phe Tyr Tyr
          20          25          30
Asp Trp His Ser Leu Gln Val Gly Gly Leu Ile Cys Ala Gly Val Leu
          35          40          45
Cys Ala Met Gly Ile Ile Ile Val Met Ser Ala Lys Cys Lys Cys Lys
          50          55          60
Phe Gly Gln Lys Ser Gly His His Pro Gly Glu Thr Pro Pro Leu Ile
          65          70          75          80
Thr Pro Gly Ser Ala Gln Ser *
          85          87

```

<210> 1488

<211> 268

<212> PRT

<213> Homo sapiens

<400> 1488

```

Met Gly Ser Ala Cys Ile Lys Val Thr Lys Tyr Phe Leu Phe Leu Phe
 1          5          10          15
Asn Leu Ile Phe Phe Ile Leu Gly Ala Val Ile Leu Gly Phe Gly Val
          20          25          30
Trp Ile Leu Ala Asp Lys Ser Ser Phe Ile Ser Val Leu Gln Thr Ser
          35          40          45
Ser Ser Ser Leu Arg Met Gly Ala Tyr Val Phe Ile Gly Val Gly Ala
          50          55          60
Val Thr Met Leu Met Gly Phe Leu Gly Cys Ile Gly Ala Val Asn Glu
          65          70          75          80
Val Arg Cys Leu Leu Gly Leu Tyr Phe Ala Phe Leu Leu Leu Ile Leu
          85          90          95
Ile Ala Gln Val Thr Ala Gly Ala Leu Phe Tyr Phe Asn Met Gly Lys
          100          105          110
Leu Lys Gln Glu Met Gly Gly Ile Val Thr Glu Leu Ile Arg Asp Tyr
          115          120          125
Asn Ser Ser Arg Glu Asp Ser Leu Gln Asp Ala Trp Asp Tyr Val Gln
          130          135          140
Ala Gln Val Lys Cys Cys Gly Trp Val Ser Phe Tyr Asn Trp Thr Asp
          145          150          155          160
Asn Ala Glu Leu Met Asn Arg Pro Glu Val Thr Tyr Pro Cys Ser Cys
          165          170          175
Glu Val Lys Gly Glu Glu Asp Asn Ser Leu Ser Val Arg Lys Gly Phe
          180          185          190
Cys Glu Ala Pro Gly Asn Arg Thr Gln Ser Gly Asn His Pro Glu Asp
          195          200          205
Trp Pro Val Tyr Gln Glu Gly Cys Met Glu Lys Val Gln Ala Trp Leu
          210          215          220
Gln Glu Asn Leu Gly Ile Ile Leu Gly Val Gly Val Gly Val Ala Ile
          225          230          235          240
Ile Glu Leu Leu Gly Met Val Leu Ser Ile Cys Leu Cys Arg His Val
          245          250          255
His Ser Glu Asp Tyr Ser Lys Val Pro Lys Tyr *

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260

265

267

<210> 1489
 <211> 832
 <212> PRT
 <213> Homo sapiens

<400> 1489

Met	Thr	Leu	Ala	Leu	Ala	Tyr	Leu	Leu	Ala	Leu	Pro	Gln	Val	Leu	Asp
1				5					10					15	
Ala	Asn	Arg	Cys	Phe	Glu	Lys	Gln	Ser	Pro	Ser	Ala	Leu	Ser	Leu	Gln
			20					25					30		
Leu	Ala	Ala	Tyr	Tyr	Tyr	Ser	Leu	Gln	Ile	Tyr	Ala	Arg	Leu	Ala	Pro
		35					40					45			
Cys	Phe	Arg	Asp	Lys	Cys	His	Pro	Leu	Tyr	Arg	Ala	Asp	Pro	Lys	Glu
	50					55					60				
Leu	Ile	Lys	Met	Val	Thr	Arg	His	Val	Thr	Arg	His	Glu	His	Glu	Ala
	65				70					75				80	
Trp	Pro	Glu	Asp	Leu	Ile	Ser	Leu	Thr	Lys	Gln	Leu	His	Cys	Tyr	Asn
				85					90					95	
Glu	Arg	Leu	Leu	Asp	Phe	Thr	Gln	Ala	Gln	Ile	Leu	Gln	Gly	Leu	Arg
			100					105					110		
Lys	Gly	Val	Asp	Val	Gln	Arg	Phe	Thr	Ala	Asp	Asp	Gln	Tyr	Lys	Arg
	115					120						125			
Glu	Thr	Ile	Leu	Gly	Leu	Ala	Glu	Thr	Leu	Glu	Glu	Ser	Val	Tyr	Ser
	130					135					140				
Ile	Ala	Ile	Ser	Leu	Ala	Gln	Arg	Tyr	Ser	Val	Ser	Arg	Trp	Glu	Val
145					150					155				160	
Phe	Met	Thr	His	Leu	Glu	Phe	Leu	Phe	Thr	Asp	Ser	Gly	Leu	Ser	Thr
				165					170					175	
Leu	Glu	Ile	Glu	Asn	Arg	Ala	Gln	Asp	Leu	His	Leu	Phe	Glu	Thr	Leu
			180					185					190		
Lys	Thr	Asp	Pro	Glu	Ala	Phe	His	Gln	His	Met	Val	Lys	Tyr	Ile	Tyr
	195						200					205			
Pro	Thr	Ile	Gly	Gly	Phe	Asp	His	Glu	Arg	Leu	Gln	Tyr	Tyr	Phe	Thr
	210					215					220				
Leu	Leu	Glu	Asn	Cys	Gly	Cys	Ala	Asp	Leu	Gly	Asn	Cys	Ala	Ile	Lys
225					230					235				240	
Pro	Glu	Thr	His	Ile	Arg	Leu	Leu	Lys	Lys	Phe	Lys	Val	Val	Ala	Ser
				245					250					255	
Gly	Leu	Asn	Tyr	Lys	Lys	Leu	Thr	Asp	Glu	Asn	Met	Ser	Pro	Leu	Glu
		260						265					270		
Ala	Leu	Glu	Pro	Val	Leu	Ser	Ser	Gln	Asn	Ile	Leu	Ser	Ile	Ser	Lys
	275						280					285			
Leu	Val	Pro	Lys	Ile	Pro	Glu	Lys	Asp	Gly	Gln	Met	Leu	Ser	Pro	Ser
	290					295					300				
Ser	Leu	Tyr	Thr	Ile	Trp	Leu	Gln	Lys	Leu	Phe	Trp	Thr	Gly	Asp	Pro
305					310					315				320	
His	Leu	Ile	Lys	Gln	Val	Pro	Gly	Ser	Ser	Pro	Glu	Trp	Leu	His	Ala
				325					330					335	
Tyr	Asp	Val	Cys	Met	Lys	Tyr	Phe	Asp	Arg	Leu	His	Pro	Gly	Asp	Leu
			340					345					350		
Ile	Thr	Val	Val	Asp	Ala	Val	Thr	Phe	Ser	Pro	Lys	Ala	Val	Thr	Lys
	355						360					365			
Leu	Ser	Val	Glu	Ala	Arg	Lys	Glu	Met	Thr	Arg	Lys	Ala	Ile	Lys	Thr
	370					375					380				

Val	Lys	His	Phe	Ile	Glu	Lys	Pro	Arg	Lys	Arg	Asn	Ser	Glu	Asp	Glu	385	390	395	400
Ala	Gln	Glu	Ala	Lys	Asp	Ser	Lys	Val	Thr	Tyr	Ala	Asp	Thr	Leu	Asn	405	410	415	
His	Leu	Glu	Lys	Ser	Leu	Ala	His	Leu	Glu	Thr	Leu	Ser	His	Ser	Phe	420	425	430	
Ile	Leu	Ser	Leu	Lys	Asn	Ser	Glu	Gln	Glu	Thr	Leu	Gln	Lys	Tyr	Ser	435	440	445	
His	Leu	Tyr	Asp	Leu	Ser	Arg	Ser	Glu	Lys	Glu	Lys	Leu	His	Asp	Glu	450	455	460	
Ala	Val	Ala	Ile	Cys	Leu	Asp	Gly	Gln	Pro	Leu	Ala	Met	Ile	Gln	Gln	465	470	475	480
Leu	Leu	Glu	Val	Ala	Val	Gly	Pro	Leu	Asp	Ile	Ser	Pro	Lys	Asp	Ile	485	490	495	
Val	Gln	Ser	Ala	Ile	Met	Lys	Ile	Ile	Ser	Ala	Leu	Ser	Gly	Gly	Ser	500	505	510	
Ala	Asp	Leu	Gly	Gly	Pro	Arg	Asp	Pro	Leu	Lys	Val	Leu	Glu	Gly	Val	515	520	525	
Val	Ala	Ala	Val	His	Ala	Ser	Val	Asp	Lys	Gly	Glu	Glu	Leu	Val	Ser	530	535	540	
Pro	Glu	Asp	Leu	Leu	Glu	Trp	Leu	Arg	Pro	Phe	Cys	Ala	Asp	Asp	Ala	545	550	555	560
Trp	Pro	Val	Arg	Pro	Arg	Ile	His	Val	Leu	Gln	Ile	Leu	Gly	Gln	Ser	565	570	575	
Phe	His	Leu	Thr	Glu	Glu	Asp	Ser	Lys	Leu	Leu	Val	Phe	Phe	Arg	Thr	580	585	590	
Glu	Ala	Ile	Leu	Lys	Ala	Ser	Trp	Pro	Gln	Arg	Gln	Val	Asp	Ile	Ala	595	600	605	
Asp	Ile	Glu	Asn	Glu	Glu	Asn	Arg	Tyr	Cys	Leu	Phe	Met	Glu	Leu	Leu	610	615	620	
Glu	Ser	Ser	His	His	Glu	Ala	Glu	Phe	Gln	His	Leu	Val	Leu	Leu	Leu	625	630	635	640
Gln	Ala	Trp	Pro	Pro	Met	Lys	Ser	Glu	Tyr	Val	Ile	Thr	Asn	Asn	Pro	645	650	655	
Trp	Val	Arg	Leu	Ala	Thr	Val	Met	Leu	Thr	Arg	Cys	Thr	Met	Glu	Asn	660	665	670	
Lys	Glu	Gly	Leu	Gly	Asn	Glu	Val	Leu	Lys	Met	Cys	Arg	Ser	Leu	Tyr	675	680	685	
Asn	Thr	Lys	Gln	Met	Leu	Pro	Ala	Glu	Gly	Val	Lys	Glu	Leu	Cys	Leu	690	695	700	
Leu	Leu	Leu	Asn	Gln	Ser	Leu	Leu	Leu	Pro	Ser	Leu	Lys	Leu	Leu	Leu	705	710	715	720
Glu	Ser	Arg	Asp	Glu	His	Leu	His	Glu	Met	Ala	Leu	Glu	Gln	Ile	Thr	725	730	735	
Ala	Val	Thr	Thr	Val	Asn	Asp	Ser	Asn	Cys	Asp	Gln	Glu	Leu	Leu	Ser	740	745	750	
Leu	Leu	Leu	Asp	Ala	Lys	Leu	Leu	Val	Lys	Cys	Val	Ser	Thr	Pro	Phe	755	760	765	
Tyr	Pro	Arg	Ile	Val	Asp	His	Leu	Leu	Ala	Ser	Leu	Gln	Gln	Gly	Arg	770	775	780	
Trp	Asp	Ala	Glu	Glu	Leu	Gly	Arg	His	Leu	Arg	Glu	Ala	Gly	His	Glu	785	790	795	800
Ala	Glu	Ala	Gly	Ser	Leu	Leu	Leu	Ala	Val	Arg	Gly	Thr	His	Gln	Ala	805	810	815	
Phe	Arg	Thr	Phe	Ser	Thr	Ala	Leu	Arg	Ala	Ala	Gln	His	Trp	Val	*	820	825	830	831

<210> 1490
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1490
 Met Trp Phe Leu Val Ser Val Val Cys Leu Tyr Gly Ile Gly Glu
 1 5 10 15
 Gly Asn Phe Phe Ser Leu Ala Ser Val Phe Ser Leu Leu Ser Leu Cys
 20 25 30
 Leu His Leu Leu Leu Trp Lys Arg Ala Phe Asp Arg Thr Asp Val Leu
 35 40 45
 Thr Ser Glu Trp Ile Phe *
 50 54

<210> 1491
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1491
 Met Thr Thr Thr Phe Pro Pro Arg Lys Met Val Ala Gln Phe Leu Leu
 1 5 10 15
 Val Ala Gly Asn Val Ala Asn Ile Thr Thr Val Ser Leu Trp Glu Glu
 20 25 30
 Phe Ser Ser Ser Asp Leu Ala Asp Leu Arg Phe Leu Asp Met Ser Gln
 35 40 45
 Asn Gln Phe Gln Tyr Leu Pro Asp Gly Phe Leu Arg Lys Met Pro Ser
 50 55 60
 Leu Ser His Leu Asn Leu His Gln Asn Cys Leu Met Thr Leu His Ile
 65 70 75 80
 Arg Glu His Glu Pro Gly Ala Leu Thr Glu Leu Asp Leu Ser His
 85 90 95
 Asn Gln Leu Ser Glu Leu His Leu Ala Pro Gly Leu Ala Ser Cys Leu
 100 105 110
 Gly Ser Leu Arg Leu Phe Asn Leu Ser Ser Asn Gln Leu Leu Gly Val
 115 120 125
 Pro Pro Gly Pro Leu Tyr
 130 134

<210> 1492
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1492
 Met Arg Ser Glu Trp Phe Tyr Lys Trp Phe Phe Pro Pro Phe Ala Leu
 1 5 10 15
 His Phe Ser Leu Leu Pro Pro Cys Glu Glu Gly His Val Cys Leu Pro
 20 25 30
 Met Cys His Glu Cys Lys Phe Pro Glu Ala Ser Pro Ala Thr Met Asn
 35 40 45

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<210> 1493
<211> 78
<212> PRT
<213> Homo sapiens
```

```
<210> 1494
<211> 121
<212> PRT
<213> Homo sapiens
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```
<210> 1495
<211> 91
<212> PRT
<213> Homo sapiens
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<400> 1495
 Met Glu Asn Cys Val Gly Glu Arg Thr His Pro Leu Phe Val Val Tyr
 1 5 10 15
 Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Trp
 20 25 30
 Ser Gly Leu Arg Phe Phe Gln Pro Trp Gly Leu Trp Leu Arg Ser Ser
 35 40 45
 Gly Leu Leu Phe Ala Thr Phe Gln Leu Leu Ser Leu Phe Ser Leu Val
 50 55 60
 Ala Ser Leu Leu Leu Val Ser His Leu Tyr Leu Val Ala Ser Asn Thr
 65 70 75 80
 Thr Thr Trp Glu Phe Ile Ser Ser His His Val
 85 90 91

<210> 1496
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1496
 Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Leu Asn Val Gly Gly Thr
 1 5 10 15
 Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
 20 25 30
 Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
 35 40 45
 Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
 50 55 60
 Gln Gly Lys Gly Thr Pro Asp *
 65 70 71

<210> 1497
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 1497
 Met Ala Pro Arg Ala Leu Pro Gly Ser Ala Val Leu Ala Ala Val
 1 5 10 15
 Phe Val Gly Gly Ala Val Ser Ser Pro Leu Val Ala Pro Asp Asn Gly
 20 25 30
 Ser Ser Arg Thr Leu His Ser Arg Thr Glu Thr Thr Pro Ser Pro Ser
 35 40 45
 Asn Asp Thr Gly Asn Gly His Pro Glu Tyr Ile Ala Tyr Ala Leu Val
 50 55 60
 Pro Val Phe Phe Ile Met Gly Leu Phe Gly Val Leu Ile Cys His Leu
 65 70 75 80
 Leu Lys Lys Lys Gly Tyr Arg Cys Thr Thr Glu Ala Glu Gln Asp Ile
 85 90 95
 Glu Glu Glu Lys Val Glu Lys Ile Glu Leu Asn Asp Ser Val Asn Glu
 100 105 110
 Asn Ser Asp Thr Val Gly Gln Ile Val His Tyr Ile Met Lys Asn Glu
 115 120 125

Ala Asn Ala Asp Val Leu Lys Ala Met Val Ala Asp Asn Ser Leu Tyr
 130 135 140
 Asp Pro Glu Ser Pro Val Thr Pro Ser Thr Pro Gly Glu Pro Ala Ser
 145 150 155 160
 Glu Ser Trp Ala Phe Val Thr Arg Gly Asp Ala Arg Glu Ala Arg Leu
 165 170 175
 Trp Pro Ser Ser Ala Tyr Gly Gly Arg Cys Cys Arg Glu Gly Cys Val
 180 185 190
 Ser Ser Val *
 195

<210> 1498
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1498
 Met Trp Ser Gln Ile Ala Phe Val Arg Ile Pro Phe Cys Phe Ser Leu
 1 5 10 15
 Leu Ser His Ser Asn Ala Trp Phe Val Gln Lys Ala Ala Ser Gln Arg
 20 25 30
 Gln Ala Ser Ile Ser Thr Ala Cys His Cys Pro Ala Glu Ala Gly Gly
 35 40 45
 Glu Arg Ile Thr Val Ser Thr Thr Gly Ala Gln Arg Asn Ala Ala Met
 50 55 60
 Val Pro Asp Leu Gln Ser Pro Arg Arg Ser *
 65 70 74

<210> 1499
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1499
 Met Pro Ser Leu Met Met Val Leu Glu Ala Arg Phe Val Ser Ser Cys
 1 5 10 15
 Leu Ile Phe Pro Ser Arg Ala Met Pro Leu Leu Ser Arg Leu Leu Ala
 20 25 30
 Ser Lys Gly Ser Ser Val Asn Val Leu Val Lys Val Leu Phe Gly Gly
 35 40 45
 Thr Phe Ser Cys Ala Ser Ser Ile Ala Thr Gly Leu Thr *
 50 55 60 61

<210> 1500
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 1500
 Met Pro Ile Trp Lys Pro Phe Met Ala Trp Met Ala Ala Trp Ala Leu

```

      1           5           10           15
Ala Val Leu Ser Lys Leu Thr Lys Pro Ile His Leu Leu Trp Met Val
      20           25           30
Ala Arg Ser Ile Asn Thr Leu Glu Glu Met Ile Leu Pro Lys Gly Thr
      35           40           45
Asn Ile Cys Val Ser Ser Val Ser Pro Asn Ser Phe Ser Leu Leu Leu
      50           55           60
Leu Gln Glu Gly Arg Arg Leu Glu Asp Ala Val Arg Asp Gly Arg Asp
      65           70           75           80
Gly Arg Gly Gly Ala His Gly Cys Val Leu Leu Asp Ser Gly Glu Gly
      85           90           95
Arg Met Gln Cys Leu Gly His Ser Arg Ala Leu Ser Trp Val Trp His
      100          105          110
Lys Ala Ile Gly Ile Asp Glu Phe Pro Gly Gln Gly Ala His Leu Glu
      115          120          125
Arg Ala Arg His Leu Pro Ser His Trp *
      130          135          137

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<210> 1501
 <211> 82
 <212> PRT
 <213> Homo sapiens

```

      <400> 1501
Met Ile Leu Phe Thr Arg Ala Trp Phe Glu Leu Val Thr Leu Val Gln
      1           5           10           15
Phe Ile Ile Gly Ser Gln Met Leu Tyr Pro Tyr Leu His Ile Glu Glu
      20           25           30
Phe Val Ile Arg Lys Leu Pro Val Leu Leu Tyr Arg Lys Ser Val Ile
      35           40           45
Arg Tyr Gln Met Ala Ser Ser Pro Cys Leu Gln Met Phe Lys Gln Tyr
      50           55           60
Cys Gly Trp Ser Arg Lys Ser Leu Arg His Ala Val Lys Cys Arg Ala
      65           70           75           80
Arg *
      81

```

<210> 1502
 <211> 54
 <212> PRT
 <213> Homo sapiens

```

      <400> 1502
Met Leu Leu Phe Leu Gly Phe Phe Ile Cys Ser Leu Phe Phe Ser Glu
      1           5           10           15
Leu Ser Thr Gly Thr Thr His Ser Leu Glu Ser Tyr Gln Ile Leu Leu
      20           25           30
Ser Lys Phe Phe Arg His Pro Leu Cys Thr Arg Thr Phe Arg Ile Leu
      35           40           45
Pro Pro Phe His Phe *
      50           53

```

<210> 1503
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1503
 Met Gly Trp Pro Pro Ser Leu Trp Val Leu Ala Leu Ala Tyr Cys Cys
 1 5 10 15
 Lys Ala Pro Gln Arg Leu Cys Ser Gly Ser Ser Pro Cys Arg Phe Ser
 20 25 30
 Ser Arg Met Ser Ala Ser Pro Ala Thr Asn Arg Asn Glu Asn Thr Thr
 35 40 45
 Ser Trp Ile Ala Ser Leu His Lys Tyr Val Ile Ser Gln *
 50 55 60 61

<210> 1504
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1504
 Met Trp Lys Gln Ile Ser Pro Ile Gly Asn Leu Val Thr Ala Ile Phe
 1 5 10 15
 Phe Cys Val Leu Cys Gln Gln Arg Tyr Gln Trp Leu Ala Arg Asp Ala
 20 25 30
 Phe Asn Thr Gln Ser Ile Leu Ser Pro Pro Ile Trp Val *
 35 40 45

<210> 1505
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1505
 Met Val Ala Val Ser Leu Leu Cys Pro Trp Pro Ser Ser Trp Asn Arg
 1 5 10 15
 Arg Ser Cys Gly Arg Ser His Arg Asn Leu Gly Leu Phe Thr Ala Phe
 20 25 30
 Leu Ser Val Pro Glu Phe Val Ile Phe Gly Ala Cys Arg Tyr Trp *
 35 40 45 47

<210> 1506
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 1506
 Met Trp Leu Leu Gly Pro Leu Cys Leu Leu Leu Ser Ser Ala Ala Glu

```

      1           5           10           15
Ser Gln Leu Leu Pro Gly Asn Asn Phe Thr Asn Glu Cys Asn Ile Pro
      20           25           30
Gly Asn Phe Val Cys Ser Asn Gly Arg Cys Ile Pro Gly Ala Trp Gln
      35           40           45
Cys Asp Gly Leu Pro Asp Cys Phe Asp Lys Ser Asp Glu Lys Glu Cys
      50           55           60
Pro Lys Ala Lys Ser Lys Cys Gly Pro Thr Phe Phe Pro Cys Ala Ser
      65           70           75           80
Gly Ile His Cys Ile Ile Gly Arg Phe Arg Cys Asn Gly Phe Glu Asp
      85           90           95
Cys Pro Asp Gly Ser Asp Glu Glu Asn Cys Thr Ala Asn Pro Leu Leu
      100          105          110
Cys Ser Thr Ala Arg Tyr His Cys Lys Asn Gly Leu Cys Ile Asp Lys
      115          120          125
Ser Phe Ile Cys Asp Gly Gln Asn Asn Cys Gln Asp Asn Ser Asp Glu
      130          135          140
Glu Ser Cys Glu Ser Ser Gln Val Phe Arg Pro Gln Val Ser Glu Trp
      145          150          155          160
Gln Ala Arg Pro Arg Asp Leu Cys Ala Arg Trp Asn Ile Pro Phe Leu
      165          170          175
Gly Arg Leu Glu Arg Pro Trp Ser Phe Thr Ser Ser Gln Gln
      180          185          190

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<210> 1507
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

      <400> 1507
Met Tyr Arg Pro Ala Pro Pro Arg Gln Asn Arg Gln Leu His Pro Tyr
      1           5           10           15
Leu Leu Ala Ser Trp Pro Lys Ala Leu Asn Cys Thr Leu Cys Val Cys
      20           25           30
Val Cys Val Cys Ala Arg Val Cys Ala Cys Val Cys Met Trp Ser Val
      35           40           45
Thr Ser Leu Trp Leu Thr Cys Leu Ser Gly Val *
      50           55           59

```

<210> 1508
 <211> 48
 <212> PRT
 <213> Homo sapiens

```

      <400> 1508
Met Ser His His Cys Ala Trp Pro Lys Asn Phe Leu Leu Lys Met Leu
      1           5           10           15
Ser Thr Gly Arg Val Gln Trp Leu Met Pro Ile Ile Phe Leu Phe Phe
      20           25           30
Gln Lys Met Gly Gly Asn Met Val Gly Ser Gln Leu Lys Leu Ser *
      35           40           45           47

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<210> 1509
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1509
 Met Thr Gly Ser Arg Cys Glu Glu His Val Phe Ser Gln Gln Gln Pro
 1 5 10 15
 Gly His Ile Ala Ser Ile Leu Ile Pro Leu Leu Leu Leu Leu Leu
 20 25 30
 Val Leu Ala Ala Gly Val Val Phe Trp Tyr Lys Arg Arg Val Gln Gly
 35 40 45
 Ala Lys Gly Phe His His Gln Arg Met Thr Asn Gly Ala Met Asn Val
 50 55 60
 Glu Ile Gly Asn Pro Thr Tyr Lys Met Tyr Glu Gly Gly Glu Pro Asp
 65 70 75 80
 Asp Val Gly Gly Leu
 85

<210> 1510
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1510
 Met Ala Ile Ser Trp Lys Pro Thr Gly Leu Pro Trp His Ser Met Leu
 1 5 10 15
 Gln Val Leu Leu Ala Ala Trp Leu Pro Gly Pro Thr Pro Thr Pro His
 20 25 30
 Ser Ala Leu Pro Ser Phe Ser Pro Pro Pro Ser Leu Pro Pro Lys Met
 35 40 45
 Cys Leu Pro Lys Cys Cys *
 50 54

<210> 1511
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1511
 Met Val Gly Phe Gly Ala Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
 1 5 10 15
 Val Leu Gly Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
 20 25 30
 Trp Ser Ile Ser Ser Arg His Val Leu Leu Gln Glu Glu Val Ala Glu
 35 40 45
 Leu Gln Gly Gln Val Gln Arg Thr Glu Val Ala Arg Gly Arg Leu Glu
 50 55 60
 Lys Arg Asn Ser Asp Leu Phe Ala Val Val Gly His Ala Gln Glu Thr
 65 70 75 80
 Asp Arg Pro Glu Gly Gly Arg Leu Arg Pro Pro Gln Gln Pro Ala Ala

				85					90			95
Gly	Gln	Arg	Gly	Pro	Arg	Glu	Glu	Met	Arg	Gly	*	
			100					105		107		

<210> 1512
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1512

Met	Val	Ala	Arg	Val	Trp	Ser	Leu	Met	Arg	Phe	Leu	Ile	Lys	Gly	Ser
1				5					10					15	
Val	Ala	Gly	Gly	Ala	Val	Tyr	Leu	Val	Tyr	Asp	Gln	Glu	Leu	Leu	Gly
			20					25					30		
Pro	Ser	Asp	Lys	Ser	Gln	Ala	Ala	Leu	Gln	Lys	Ala	Gly	Glu	Val	Val
			35				40					45			
Pro	Pro	Ala	Met	Tyr	Gln	Phe	Ser	Gln	Tyr	Val	Cys	Gln	Gln	Thr	Gly
			50			55					60				
Leu	Gln	Ile	Pro	Gln	Leu	Pro	Ala	Pro	Pro	Lys	Ile	Tyr	Phe	Pro	Ile
65					70					75					80
Arg	Asp	Ser	Trp	Asn	Ala	Gly	Ile	Met	Thr	Val	Met	Ser	Ala	Leu	Ser
				85					90					95	
Val	Ala	Pro	Ser	Lys	Ala	Arg	Glu	Tyr	Ser	Lys	Glu	Gly	Trp	Glu	Tyr
			100					105					110		
Val	Lys	Ala	Arg	Thr	Lys	*									
			115		118										

<210> 1513
 <211> 973
 <212> PRT
 <213> Homo sapiens

<400> 1513

Met	Val	Lys	Ser	Lys	Trp	Gly	Leu	Ala	Leu	Ala	Ala	Val	Val	Thr	Val
1				5					10					15	
Leu	Ser	Ser	Leu	Leu	Met	Ser	Val	Gly	Leu	Cys	Thr	Leu	Phe	Gly	Leu
			20					25					30		
Thr	Pro	Thr	Leu	Asn	Gly	Gly	Glu	Ile	Phe	Pro	Tyr	Leu	Val	Val	Val
			35				40					45			
Ile	Gly	Leu	Glu	Asn	Val	Leu	Val	Leu	Thr	Lys	Ser	Val	Val	Ser	Thr
			50			55				60					
Pro	Val	Asp	Leu	Glu	Val	Lys	Leu	Arg	Ile	Ala	Gln	Gly	Leu	Ser	Ser
65					70					75					80
Glu	Ser	Trp	Ser	Ile	Met	Lys	Asn	Met	Ala	Thr	Glu	Leu	Gly	Ile	Ile
				85					90					95	
Leu	Ile	Gly	Tyr	Phe	Thr	Leu	Val	Pro	Ala	Ile	Gln	Glu	Phe	Cys	Leu
			100					105					110		
Phe	Ala	Val	Val	Gly	Leu	Val	Ser	Asp	Phe	Phe	Leu	Gln	Met	Leu	Phe
			115				120					125			
Phe	Thr	Thr	Val	Leu	Ser	Ile	Asp	Ile	Arg	Arg	Met	Glu	Leu	Ala	Asp
			130			135					140				
Leu	Asn	Lys	Arg	Leu	Pro	Pro	Glu	Ala	Cys	Leu	Pro	Ser	Ala	Lys	Pro
145					150					155					160

Val	Gly	Gln	Pro	Thr	Arg	Tyr	Glu	Arg	Gln	Leu	Ala	Val	Arg	Pro	Ser		
				165					170					175			
Thr	Pro	His	Thr	Ile	Thr	Leu	Gln	Pro	Ser	Ser	Phe	Arg	Asn	Leu	Arg		
			180					185					190				
Leu	Pro	Lys	Arg	Leu	Arg	Val	Val	Tyr	Phe	Leu	Ala	Arg	Thr	Arg	Leu		
		195					200					205					
Ala	Gln	Arg	Leu	Ile	Met	Ala	Gly	Thr	Val	Val	Trp	Ile	Gly	Ile	Leu		
	210				215						220						
Val	Tyr	Thr	Asp	Pro	Ala	Gly	Leu	Arg	Asn	Tyr	Leu	Ala	Ala	Gln	Val		
225					230					235					240		
Thr	Glu	Gln	Ser	Pro	Leu	Gly	Glu	Gly	Ala	Leu	Ala	Pro	Met	Pro	Val		
			245						250					255			
Pro	Ser	Gly	Met	Leu	Pro	Pro	Ser	His	Pro	Asp	Pro	Ala	Phe	Ser	Ile		
			260					265					270				
Phe	Pro	Pro	Asp	Ala	Pro	Lys	Leu	Pro	Glu	Asn	Gln	Thr	Ser	Pro	Gly		
		275					280					285					
Glu	Ser	Pro	Glu	Arg	Gly	Gly	Pro	Ala	Glu	Val	Val	His	Asp	Ser	Pro		
	290					295					300						
Val	Pro	Glu	Val	Thr	Trp	Gly	Pro	Glu	Asp	Glu	Glu	Leu	Trp	Arg	Lys		
305					310					315					320		
Leu	Ser	Phe	Arg	His	Trp	Pro	Thr	Leu	Phe	Ser	Tyr	Tyr	Asn	Ile	Thr		
			325						330					335			
Leu	Ala	Lys	Arg	Tyr	Ile	Ser	Leu	Leu	Pro	Val	Ile	Pro	Val	Thr	Leu		
			340					345						350			
Arg	Leu	Asn	Pro	Arg	Glu	Ala	Leu	Glu	Gly	Arg	His	Pro	Gln	Asp	Gly		
		355					360					365					
Arg	Ser	Ala	Trp	Pro	Pro	Pro	Gly	Pro	Ile	Pro	Ala	Gly	His	Trp	Glu		
	370					375					380						
Ala	Gly	Pro	Lys	Gly	Pro	Gly	Gly	Val	Gln	Ala	His	Gly	Asp	Val	Thr		
385					390					395					400		
Leu	Tyr	Lys	Val	Ala	Ala	Leu	Gly	Leu	Ala	Thr	Gly	Ile	Val	Leu	Val		
			405						410					415			
Leu	Leu	Leu	Leu	Cys	Leu	Tyr	Arg	Val	Leu	Cys	Pro	Arg	Asn	Tyr	Gly		
			420					425					430				
Gln	Leu	Gly	Gly	Gly	Pro	Gly	Arg	Arg	Arg	Arg	Gly	Glu	Leu	Pro	Cys		
		435					440					445					
Asp	Asp	Tyr	Gly	Tyr	Ala	Pro	Pro	Glu	Thr	Glu	Ile	Val	Pro	Leu	Val		
	450					455					460						
Leu	Arg	Gly	His	Leu	Met	Asp	Ile	Glu	Cys	Leu	Ala	Ser	Asp	Gly	Met		
465					470					475					480		
Leu	Leu	Val	Ser	Cys	Cys	Leu	Ala	Gly	His	Val	Cys	Val	Trp	Asp	Ala		
			485						490					495			
Gln	Thr	Gly	Asp	Cys	Leu	Thr	Arg	Ile	Pro	Arg	Pro	Gly	Arg	Gln	Arg		
			500					505						510			
Arg	Asp	Ser	Gly	Val	Gly	Ser	Gly	Leu	Glu	Ala	Gln	Glu	Ser	Trp	Glu		
		515					520					525					
Arg	Leu	Ser	Asp	Gly	Gly	Lys	Ala	Gly	Pro	Glu	Glu	Pro	Gly	Asp	Ser		
		530				535					540						
Pro	Pro	Leu	Arg	His	Arg	Pro	Arg	Gly	Pro	Pro	Pro	Pro	Ser	Leu	Phe		
545					550					555					560		
Gly	Asp	Gln	Pro	Asp	Leu	Thr	Cys	Leu	Ile	Asp	Thr	Asn	Phe	Ser	Ala		
			565						570					575			
Gln	Pro	Arg	Ser	Ser	Gln	Pro	Thr	Gln	Pro	Glu	Pro	Arg	His	Arg	Ala		
			580					585					590				
Val	Cys	Gly	Arg	Ser	Arg	Asp	Ser	Pro	Gly	Tyr	Asp	Phe	Ser	Cys	Leu		
		595					600					605					
Val	Gln	Arg	Val	Tyr	Gln	Glu	Glu	Gly	Leu	Ala	Ala	Val	Cys	Thr	Pro		
	610					615					620						
Ala	Leu	Arg	Pro	Pro	Ser	Pro	Gly	Pro	Val	Leu	Ser	Gln	Ala	Pro	Glu		

625					630					635					640
Asp	Glu	Gly	Gly	Ser	Pro	Glu	Lys	Gly	Ser	Pro	Ser	Leu	Ala	Trp	Ala
				645					650						655
Pro	Ser	Ala	Glu	Gly	Ser	Ile	Trp	Ser	Leu	Glu	Leu	Gln	Gly	Asn	Leu
			660					665					670		
Ile	Val	Val	Gly	Arg	Ser	Ser	Gly	Arg	Leu	Glu	Val	Trp	Asp	Ala	Ile
		675					680					685			
Glu	Gly	Val	Leu	Cys	Cys	Ser	Ser	Glu	Glu	Val	Ser	Ser	Gly	Ile	Thr
	690					695					700				
Ala	Leu	Val	Phe	Leu	Asp	Lys	Arg	Ile	Val	Ala	Ala	Arg	Leu	Asn	Gly
705					710					715					720
Ser	Leu	Asp	Phe	Phe	Ser	Leu	Glu	Thr	His	Thr	Ala	Leu	Ser	Pro	Leu
			725						730					735	
Gln	Phe	Arg	Gly	Thr	Pro	Gly	Arg	Gly	Ser	Ser	Pro	Ala	Ser	Pro	Val
			740					745					750		
Tyr	Ser	Ser	Ser	Asp	Thr	Val	Ala	Cys	His	Leu	Thr	His	Thr	Val	Pro
	755					760						765			
Cys	Ala	His	Gln	Lys	Pro	Ile	Thr	Ala	Leu	Lys	Ala	Ala	Ala	Gly	Arg
	770					775					780				
Leu	Val	Thr	Gly	Ser	Gln	Asp	His	Thr	Leu	Arg	Val	Phe	Arg	Leu	Glu
785					790					795					800
Asp	Ser	Cys	Cys	Leu	Phe	Thr	Leu	Gln	Gly	His	Ser	Gly	Ala	Ile	Thr
			805					810						815	
Thr	Val	Tyr	Ile	Asp	Gln	Thr	Met	Val	Leu	Ala	Ser	Gly	Gly	Gln	Asp
			820					825					830		
Gly	Ala	Ile	Cys	Leu	Trp	Asp	Val	Leu	Thr	Gly	Ser	Arg	Val	Ser	His
	835						840					845			
Val	Phe	Ala	His	Arg	Gly	Asp	Val	Thr	Ser	Leu	Thr	Cys	Thr	Thr	Ser
	850					855					860				
Cys	Val	Ile	Ser	Ser	Gly	Leu	Asp	Asp	Leu	Ile	Ser	Ile	Trp	Asp	Arg
865					870					875					880
Ser	Thr	Gly	Ile	Lys	Phe	Tyr	Ser	Ile	Gln	Gln	Asp	Leu	Gly	Cys	Gly
			885					890						895	
Ala	Ser	Leu	Gly	Val	Ile	Ser	Asp	Asn	Leu	Leu	Val	Thr	Gly	Gly	Gln
			900					905					910		
Gly	Cys	Val	Ser	Phe	Trp	Asp	Leu	Asn	Tyr	Gly	Asp	Leu	Leu	Gln	Thr
	915						920					925			
Val	Tyr	Leu	Gly	Lys	Asn	Ser	Glu	Ala	Gln	Pro	Ala	Arg	Gln	Ile	Leu
	930					935					940				
Val	Leu	Asp	Asn	Ala	Ala	Ile	Val	Cys	Asn	Phe	Gly	Ser	Glu	Leu	Ser
945					950				955						960
Leu	Val	Tyr	Val	Pro	Ser	Val	Leu	Glu	Lys	Leu	Asp	*			
				965					970		972				

<210> 1514
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1514
 Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val Arg Phe Trp Phe Leu
 1 5 10 15
 His Gln Met Val Leu Asp Leu Cys Leu Gly Gln Gly Val Pro Gln Gln
 20 25 30
 Asn Leu Glu Asn Pro Arg Glu Arg Lys Ser Phe Leu Leu Phe Val Arg
 35 40 45

Asn Leu Ile Ile Asp Ser Ser Leu Lys Ile Leu Ser Gln Glu Pro Ser
 50 55 60
 Asn Leu Trp Gln Arg Ile Pro Lys Met Met Thr Thr *
 65 70 75 76

<210> 1515
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 1515
 Met Leu Gly Ser Arg Leu Met Thr Leu Thr Val Cys Ala Gly Ala Leu
 1 5 10 15
 Ala Arg Gly Arg Gly Thr Gly Thr Cys Glu Thr Arg Gln Glu Gly Lys
 20 25 30
 Gly Gln Asn His Ser Thr Leu Ala Trp Pro His Glu Glu Pro Gly Ala
 35 40 45
 Ser Thr Gly Arg Asp Gly Gly Lys Leu Pro Arg Gly Gln Cys Leu Leu
 50 55 60
 Glu Lys Gly Pro Gly Gly Ala Gly Asp Lys Val Ser Lys Ile Phe Pro
 65 70 75 80
 Ser Cys Ala Leu Ala Leu Leu Leu Ser Leu Ala Asn Pro Gly Pro Arg
 85 90 95
 Gly Pro Arg Glu Phe His Leu Cys Trp Gly Trp Leu Asp Arg Gly Val
 100 105 110
 Thr Gln Glu Ala Val His Val Gly Glu Lys Arg Gly Gly Leu Gly Ser
 115 120 125
 Gly Arg Lys Gly Gly Trp Trp Pro Gly Trp Asp Pro Gly Cys Arg Asp
 130 135 140
 Val Ile Thr *
 145 147

<210> 1516
 <211> 274
 <212> PRT
 <213> Homo sapiens

<400> 1516
 Met Arg Gly Ser Gln Glu Val Leu Leu Met Trp Leu Leu Val Leu Ala
 1 5 10 15
 Val Gly Gly Thr Glu His Ala Tyr Arg Pro Gly Arg Arg Val Cys Ala
 20 25 30
 Val Arg Ala His Gly Asp Pro Val Ser Glu Ser Phe Val Gln Arg Val
 35 40 45
 Tyr Gln Pro Phe Leu Thr Thr Cys Asp Gly His Arg Ala Cys Ser Thr
 50 55 60
 Tyr Arg Thr Ile Tyr Arg Thr Ala Tyr Arg Arg Ser Pro Gly Leu Ala
 65 70 75 80
 Pro Ala Arg Pro Arg Tyr Ala Cys Cys Pro Gly Trp Lys Arg Thr Ser
 85 90 95
 Gly Leu Pro Gly Ala Cys Gly Ala Ala Ile Cys Gln Pro Pro Cys Arg
 100 105 110
 Asn Gly Gly Ser Cys Val Gln Pro Gly Arg Cys Arg Cys Pro Ala Gly

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      115      120      125
Trp Arg Gly Asp Thr Cys Gln Ser Asp Val Asp Glu Cys Ser Ala Arg
      130      135      140
Arg Gly Gly Cys Pro Gln Arg Cys Val Asn Thr Ala Gly Ser Tyr Trp
145      150      155      160
Cys Gln Cys Trp Glu Gly His Ser Leu Ser Ala Asp Gly Thr Leu Cys
      165      170      175
Val Pro Lys Gly Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val
      180      185      190
Asp Ser Ala Met Lys Glu Glu Val Gln Arg Leu Gln Ser Arg Val Asp
      195      200      205
Leu Leu Glu Glu Lys Leu Gln Leu Val Leu Ala Pro Leu His Ser Leu
      210      215      220
Ala Ser Gln Ala Leu Glu His Gly Leu Pro Asp Pro Gly Ser Leu Leu
225      230      235      240
Val His Ser Phe Gln Gln Leu Gly Arg Ile Asp Ser Leu Ser Glu Gln
      245      250      255
Ile Ser Phe Leu Glu Glu Gln Leu Gly Ser Cys Ser Cys Lys Lys Asp
      260      265      270
Ser *
273

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<210> 1517
<211> 246
<212> PRT
<213> Homo sapiens

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      <400> 1517
Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
 1      5      10      15
Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
      20      25      30
Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
      35      40      45
Leu Arg Arg Ala Val Ser Pro Pro Ala Arg Asn Met Leu Lys Met Glu
      50      55      60
Trp Asn Lys Glu Ala Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
      65      70      75      80
Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
      85      90      95
Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
      100      105      110
Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
      115      120      125
Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
      130      135      140
Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
145      150      155      160
Lys Val Leu Lys Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
      165      170      175
Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
      180      185      190
Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
      195      200      205
Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
      210      215      220

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Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
 225 230 235 240
 Ser Asn Ser Ile Tyr *
 245

<210> 1518
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1518
 Met Arg Asn Arg Arg Thr Glu Arg Thr Cys Thr Pro Pro Leu Ala Ser
 1 5 10 15
 Pro Tyr Asn Leu Val Pro His Leu Gln Asn Leu Leu Ala Val Leu Leu
 20 25 30
 Met Ile Leu Val Leu Thr Pro Met Val Leu Asn Pro His Lys Leu Tyr
 35 40 45
 Gln Met Met Thr Gln Asn Ile Leu Leu Gln Lys Pro Gln Lys Asn Phe
 50 55 60
 Ile Trp Thr Ala Leu Lys Gly Asn Leu Ser Tyr Pro Arg Asn Leu Leu
 65 70 75 80
 Leu Gln Ser His Leu Ser Leu Leu Leu His Ser Leu Leu Leu Glu Leu
 85 90 95
 Asn Gln Arg Val Cys Leu Leu Pro Arg Ser Leu Ile Asp Pro Gly Lys
 100 105 110
 Arg Leu Lys Lys Lys Pro Met Glu Thr Phe
 115 120 122

<210> 1519
 <211> 249
 <212> PRT
 <213> Homo sapiens

<400> 1519
 Met Gly Leu Ser Ile Phe Leu Leu Leu Cys Val Leu Gly Leu Ser Gln
 1 5 10 15
 Ala Ala Thr Pro Lys Ile Phe Asn Gly Thr Glu Cys Gly Arg Asn Ser
 20 25 30
 Gln Pro Trp Gln Val Gly Leu Phe Glu Gly Thr Ser Leu Arg Cys Gly
 35 40 45
 Gly Val Leu Ile Asp His Arg Trp Val Leu Thr Ala Ala His Cys Ser
 50 55 60
 Gly Ser Arg Tyr Trp Val Arg Leu Gly Glu His Ser Leu Ser Gln Leu
 65 70 75 80
 Asp Trp Thr Glu Gln Ile Arg His Ser Gly Phe Ser Val Thr His Pro
 85 90 95
 Gly Tyr Leu Gly Ala Ser Thr Ser His Glu His Asp Leu Arg Leu Leu
 100 105 110
 Arg Leu Arg Leu Pro Val Arg Val Thr Ser Ser Val Gln Pro Leu Pro
 115 120 125
 Leu Pro Asn Asp Cys Ala Thr Ala Gly Thr Glu Cys His Val Ser Gly
 130 135 140
 Trp Gly Ile Thr Asn His Pro Arg Asn Pro Phe Pro Asp Leu Leu Gln

145					150					155				160
Cys	Leu	Asn	Leu	Ser	Ile	Val	Ser	His	Ala	Thr	Cys	His	Gly	Val
				165					170					175
Pro	Gly	Arg	Ile	Thr	Ser	Asn	Met	Val	Cys	Ala	Gly	Gly	Val	Pro
			180					185					190	
Gln	Asp	Ala	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Gly
		195					200					205		
Val	Leu	Gln	Gly	Leu	Val	Ser	Trp	Gly	Ser	Val	Gly	Pro	Cys	Gly
	210					215					220			
Asp	Gly	Ile	Pro	Gly	Val	Tyr	Thr	Tyr	Ile	Cys	Lys	Tyr	Val	Asp
225					230					235				240
Ile	Arg	Met	Ile	Met	Arg	Asn	Asn	*						
				245			248							

<210> 1520
 <211> 292
 <212> PRT
 <213> Homo sapiens

<400> 1520

Met	Leu	Val	Leu	Gln	Ile	Leu	Leu	Cys	Ile	Arg	Glu	Phe	Ile	Leu	Glu
1				5					10					15	
Arg	Ser	Leu	Ile	Asn	Val	Lys	Asn	Val	Ala	Lys	Ser	Leu	Ala	Val	Val
			20					25					30		
Leu	Ala	Leu	Leu	Asn	Ile	Gly	Lys	Phe	Ile	Leu	Glu	Lys	Ile	Phe	Thr
		35				40					45				
Asn	Ala	Lys	Tyr	Val	Leu	Asn	Leu	Leu	Leu	Val	Ser	Gln	Ile	Leu	Leu
	50					55				60					
Cys	Met	Arg	Glu	Phe	Ile	Leu	Glu	Arg	Asn	Pro	Ile	Asn	Val	Lys	Asn
65				70					75					80	
Val	Ala	Lys	Pro	Phe	Leu	Ile	Val	His	Thr	Leu	Phe	Asp	Ile	Ile	Glu
			85					90					95		
Phe	Ile	Leu	Glu	Lys	Asn	His	Thr	Asn	Val	Lys	His	Val	Ala	Asn	Leu
		100					105					110			
Leu	Val	Thr	Pro	Gln	Val	Leu	Leu	Cys	Ile	Gly	Glu	Leu	Ile	Leu	Glu
	115					120					125				
Arg	Asn	Pro	Ile	His	Val	Lys	Asn	Val	Ala	Lys	Pro	Leu	Val	Ile	Val
	130					135					140				
Gln	Met	Leu	Phe	Ser	Ile	Gly	Glu	Phe	Ile	Leu	Ala	Arg	Asp	Pro	Thr
145				150					155					160	
Asn	Val	Lys	Asn	Val	Ala	Lys	Pro	Ser	Thr	Ile	Gly	His	Thr	Ser	Leu
			165					170						175	
His	Ile	Lys	Glu	Val	Ile	Leu	Glu	Arg	Asp	Pro	Thr	Asn	Val	Lys	Asn
		180						185					190		
Val	Ala	Lys	Pro	Ser	Thr	Leu	Gly	His	Thr	Ser	Leu	His	Ile	Gly	Glu
	195					200					205				
Asp	Ile	Leu	Glu	Arg	Asp	Pro	Thr	Asn	Val	Met	Asn	Val	Val	Lys	Pro
	210				215					220					
Ser	Ala	Ile	Gly	His	Thr	Ser	Leu	His	Ile	Gly	Glu	Val	Ile	Val	Glu
225				230						235					240
Arg	Asp	Pro	Thr	Asn	Val	Lys	Asn	Val	Ala	Lys	Pro	Leu	Thr	Leu	Gly
			245					250						255	
His	Thr	Ser	Leu	His	Ile	Arg	Glu	Val	Ile	Leu	Glu	Lys	Asn	Phe	Lys
		260					265					270			
Asn	Val	Lys	His	Gly	Ala	Asp	Phe	Leu	Leu	Val	Thr	His	Val	Leu	Leu
	275						280					285			

Cys Ile Arg *
290 291

<210> 1521
<211> 129
<212> PRT
<213> Homo sapiens

<400> 1521
Met Gly Ser Thr Ala Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly
1 5 10 15
Val Cys Ala Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
20 25 30
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe
35 40 45
Thr Ser Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu
50 55 60
Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser
65 70 75 80
Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser
85 90 95
Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met
100 105 110
Tyr Tyr Cys Ala Arg His Thr Val Arg Glu Thr Ser Pro Glu Pro Val
115 120 125 128
*

<210> 1522
<211> 66
<212> PRT
<213> Homo sapiens

<400> 1522
Met Val Val Val Leu Pro Cys Phe Ala Val Leu Lys Leu Leu Phe Gly
1 5 10 15
Gln Ser Lys Leu Gly Pro Met Gln Pro Ser Gln Ser Gly Leu Asp Pro
20 25 30
Val Gly Ala Gly Met Ser Ala Ser Ile Ala Asp Gly Ser Arg Ala Thr
35 40 45
Ala Asp Lys Ala Val Leu Leu Asp Pro Thr Ser Leu Leu Glu Tyr
50 55 60
Thr *
65

<210> 1523
<211> 131
<212> PRT
<213> Homo sapiens

<400> 1523
 Met Ile Leu Leu Ala Phe Leu Val Cys Trp Gly Pro Leu Phe Gly Leu
 1 5 10 15
 Leu Leu Ala Asp Val Phe Gly Ser Asn Leu Trp Ala Gln Glu Tyr Leu
 20 25 30
 Arg Gly Met Asp Trp Ile Leu Ala Leu Ala Val Leu Asn Ser Ala Val
 35 40 45
 Asn Pro Ile Ile Tyr Ser Phe Arg Ser Arg Glu Val Cys Arg Ala Val
 50 55 60
 Leu Ser Phe Leu Cys Cys Gly Cys Leu Arg Leu Gly Met Arg Gly Pro
 65 70 75 80
 Gly Asp Cys Leu Ala Arg Ala Val Glu Ala His Ser Gly Ala Ser Thr
 85 90 95
 Thr Asp Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Gly Ser Arg Ser
 100 105 110
 Leu Ser Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg
 115 120 125
 Ser Ile *
 130

<210> 1524
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1524
 Met Lys Phe Phe Val Phe Ala Leu Ile Leu Ala Leu Met Leu Ser Met
 1 5 10 15
 Thr Gly Ala Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys
 20 25 30
 Phe His Glu Lys His His Ser His Arg Gly Tyr Arg Ser Asn Tyr Leu
 35 40 45
 Tyr Asp Asn *
 50 51

<210> 1525
 <211> 246
 <212> PRT
 <213> Homo sapiens

<400> 1525
 Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
 1 5 10 15
 Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
 20 25 30
 Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
 35 40 45
 Leu Arg Arg Ala Val Ser Pro Pro Ala Arg Asn Met Leu Lys Met Glu
 50 55 60
 Trp Asn Lys Glu Ala Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
 65 70 75 80
 Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
 85 90 95

Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
 100 105 110
 Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
 115 120 125
 Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
 130 135 140
 Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
 145 150 155 160
 Lys Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
 165 170 175
 Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
 180 185 190
 Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
 195 200 205
 Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
 210 215 220
 Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
 225 230 235 240
 Ser Asn Ser Ile Tyr *
 245

<210> 1526
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1526
 Met Val Leu Gly Ala Arg Ala Val Ile Ser Phe Cys Ile Leu Ser Ala
 1 5 10 15
 Met Pro Gly Tyr Met Val Val Pro Pro Glu Arg Thr Leu Leu Ala Tyr
 20 25 30
 Lys Ser Leu Arg Met Ser Met Ser His Phe Met Met Glu Leu *
 35 40 45 46

<210> 1527
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1527
 Met Ser Ala Arg Gly Trp Pro Cys Glu Ala Phe Val Leu Ala Gln Val
 1 5 10 15
 Cys Trp Cys Trp Leu Cys Val Arg Gly Arg Leu Cys Glu Ala Leu Thr
 20 25 30
 Leu Ala Gln Val Arg Arg His Gln Val Cys Val Pro Gly Gln Pro Cys
 35 40 45
 Glu Ala Leu Thr Leu Thr Gln Val Arg Arg His Gln Leu Cys Val Trp
 50 55 60
 Gly Arg Pro Cys Glu Ala Leu Thr Leu Ala Gln Val Cys Trp Leu Trp
 65 70 75 80
 Leu Cys Val Gln Gly Trp Pro His Glu Ala Leu Thr Leu Ala Gln Val
 85 90 95
 Arg Gln His Gln Val Cys Val Arg Gly Arg Pro Cys Glu Ala Leu Ser

			100			105		110
Leu	Ala	Gln	Val	Arg	*			
		115		117				

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<210> 1528
<211> 92
<212> PRT
<213> Homo sapiens
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<400> 1528															
Met	Lys	Val	Ser	Ala	Ala	Ala	Leu	Ala	Val	Ile	Leu	Ile	Ala	Thr	Ala
1				5					10					15	
Leu	Cys	Ala	Pro	Ala	Ser	Ala	Ser	Pro	Tyr	Ser	Ser	Asp	Thr	Thr	Pro
			20					25					30		
Cys	Cys	Phe	Ala	Tyr	Ile	Ala	Arg	Pro	Leu	Pro	Arg	Ala	His	Ile	Lys
		35					40					45			
Glu	Tyr	Phe	Tyr	Thr	Ser	Gly	Lys	Cys	Ser	Asn	Pro	Ala	Val	Val	Phe
	50					55					60				
Val	Thr	Arg	Lys	Asn	Arg	Gln	Val	Cys	Ala	Asn	Pro	Glu	Lys	Lys	Trp
65				70						75					80
Val	Arg	Glu	Tyr	Ile	Asn	Ser	Leu	Glu	Met	Ser	*				
				85				90	91						

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<210> 1529
<211> 71
<212> PRT
<213> Homo sapiens
```

[illegible]

```
<210> 1530
<211> 85
<212> PRT
<213> Homo sapiens
```

```

      <400> 1530
Met  Val  Leu  Arg  Val  Cys  Phe  Leu  Ile  Phe  Val  Leu  Tyr  His  Asn  Leu
  1      ..      5      10      15
Gly  Lys  Tyr  Ile  Phe  Ile  Ile  Tyr  Val  Tyr  Arg  Cys  Lys  Asp  Arg  Phe
      20      25      30

```

```

Thr Lys Gly Cys Ile Thr Val Val Gln Gln Ser Gly Ile Leu Thr Glu
      35              40              45
Leu Lys Gly Gln Gly Ser Phe Leu Tyr Val Leu Leu Cys Leu Asp Ile
      50              55              60
Thr Leu Leu Val Arg Ser Val Phe Lys Asn Asp Asn Ser Arg Phe Asp
      65              70              75              80
Phe Gln Ala Asn *
              84

```

```

<210> 1531
<211> 60
<212> PRT
<213> Homo sapiens

```

```

<400> 1531
Met Leu Pro Gln Val Phe Leu Gly Phe Thr Lys Val Arg Leu Leu Arg
  1              5              10              15
Leu Arg Asn Pro Trp Gly Cys Val Glu Trp Thr Gly Ala Trp Ser Asp
              20              25              30
Arg Trp Asp Gly Ser Gly Val Gly Val Gly Leu Asp Pro Thr Cys Pro
      35              40              45
Pro Leu Thr Pro Gln Ser Leu Gln Leu Pro Thr Leu
      50              55              60

```

```

<210> 1532
<211> 53
<212> PRT
<213> Homo sapiens

```

```

<400> 1532
Met Leu Gly Leu His Gln Leu Cys Ser Leu Leu Val Gln Leu Asp Phe
  1              5              10              15
Tyr Leu Gln Tyr Leu Tyr Gly Gln Phe Gln Gln Phe Ser Met Cys Leu
      20              25              30
Asp Leu Asn His Val His Phe Leu Met Phe Pro Ser Leu Val Cys Ala
      35              40              45
Met Phe Arg Phe *
      50              52

```

```

<210> 1533
<211> 741
<212> PRT
<213> Homo sapiens

```

```

<400> 1533
Met Ala Glu Ser Arg Gly Arg Leu Tyr Leu Trp Met Cys Leu Ala Ala
  1              5              10              15
Ala Leu Ala Ser Phe Leu Met Gly Phe Met Val Gly Trp Phe Ile Lys
      20              25              30
Pro Leu Lys Glu Thr Thr Thr Ser Val Arg Tyr His Gln Ser Ile Arg

```

		35					40					45					
Trp	Lys	Leu	Val	Ser	Glu	Met	Lys	Ala	Glu	Asn	Ile	Lys	Ser	Phe	Leu		
	50					55					60						
Arg	Ser	Phe	Thr	Lys	Leu	Pro	His	Leu	Ala	Gly	Thr	Glu	Gln	Asn	Phe		
65					70					75					80		
Leu	Leu	Ala	Lys	Lys	Ile	Gln	Thr	Gln	Trp	Lys	Lys	Phe	Gly	Leu	Asp		
				85					90					95			
Ser	Ala	Lys	Leu	Val	His	Tyr	Asp	Val	Leu	Leu	Ser	Tyr	Pro	Asn	Glu		
			100					105					110				
Thr	Asn	Ala	Asn	Tyr	Ile	Ser	Ile	Val	Asp	Glu	His	Glu	Thr	Glu	Ile		
	115						120					125					
Phe	Lys	Thr	Ser	Tyr	Leu	Glu	Pro	Pro	Pro	Asp	Gly	Tyr	Glu	Asn	Val		
130						135				140							
Thr	Asn	Ile	Val	Pro	Pro	Tyr	Asn	Ala	Phe	Ser	Ala	Gln	Gly	Met	Pro		
145					150					155					160		
Glu	Gly	Asp	Leu	Val	Tyr	Val	Asn	Tyr	Ala	Arg	Thr	Glu	Asp	Phe	Phe		
				165					170					175			
Lys	Leu	Glu	Arg	Glu	Met	Gly	Ile	Asn	Cys	Thr	Gly	Lys	Ile	Val	Ile		
			180					185					190				
Ala	Arg	Tyr	Gly	Lys	Ile	Phe	Arg	Gly	Asn	Lys	Val	Lys	Asn	Ala	Met		
	195						200					205					
Leu	Ala	Gly	Ala	Ile	Gly	Ile	Ile	Leu	Tyr	Ser	Asp	Pro	Ala	Asp	Tyr		
210						215					220						
Phe	Ala	Pro	Glu	Val	Gln	Pro	Tyr	Pro	Lys	Gly	Trp	Asn	Leu	Pro	Gly		
225					230					235					240		
Thr	Ala	Ala	Gln	Arg	Gly	Asn	Val	Leu	Asn	Leu	Asn	Gly	Ala	Gly	Asp		
				245					250					255			
Pro	Leu	Thr	Pro	Gly	Tyr	Pro	Ala	Lys	Glu	Tyr	Thr	Phe	Arg	Leu	Asp		
			260					265					270				
Val	Glu	Glu	Gly	Val	Gly	Ile	Pro	Arg	Ile	Pro	Val	His	Pro	Ile	Gly		
	275					280						285					
Tyr	Asn	Asp	Ala	Glu	Ile	Leu	Leu	Arg	Tyr	Leu	Gly	Gly	Ile	Ala	Pro		
290						295					300						
Pro	Asp	Lys	Ser	Trp	Lys	Gly	Ala	Leu	Asn	Val	Ser	Tyr	Ser	Ile	Gly		
305					310					315					320		
Pro	Gly	Phe	Thr	Gly	Ser	Asp	Ser	Phe	Arg	Lys	Val	Arg	Met	His	Val		
				325					330					335			
Tyr	Asn	Ile	Asn	Lys	Ile	Thr	Arg	Ile	Tyr	Asn	Val	Val	Gly	Thr	Ile		
			340					345					350				
Arg	Gly	Ser	Val	Glu	Pro	Asp	Arg	Tyr	Val	Ile	Leu	Gly	Gly	His	Arg		
	355					360						365					
Asp	Ser	Trp	Val	Phe	Gly	Ala	Ile	Asp	Pro	Thr	Ser	Gly	Val	Ala	Val		
	370					375					380						
Leu	Gln	Glu	Ile	Ala	Arg	Ser	Phe	Gly	Lys	Leu	Met	Ser	Lys	Gly	Trp		
385					390					395					400		
Arg	Pro	Arg	Arg	Thr	Ile	Ile	Phe	Ala	Ser	Trp	Asp	Ala	Glu	Glu	Phe		
				405					410					415			
Gly	Leu	Leu	Gly	Ser	Thr	Glu	Trp	Ala	Glu	Glu	Asn	Val	Lys	Ile	Leu		
			420					425					430				
Gln	Glu	Arg	Ser	Ile	Ala	Tyr	Ile	Asn	Ser	Asp	Ser	Ser	Ile	Glu	Gly		
	435						440					445					
Asn	Tyr	Thr	Leu	Arg	Val	Asp	Cys	Thr	Pro	Leu	Leu	Tyr	Gln	Leu	Val		
	450					455					460						
Tyr	Lys	Leu	Thr	Lys	Glu	Ile	Pro	Ser	Pro	Asp	Gly	Phe	Glu	Ser			
465					470					475				480			
Lys	Phe	Leu	Tyr	Glu	Ser	Trp	Val	Glu	Lys	Asp	Pro	Ser	Pro	Glu	Asn		
				485					490					495			
Lys	Asn	Leu	Pro	Arg	Ile	Asn	Lys	Leu	Gly	Ser	Gly	Ser	Asp	Phe	Glu		
			500					505					510				

Ala Tyr Phe Gln Arg Leu Gly Ile Ala Ser Gly Arg Ala Arg Tyr Thr
 515 520 525
 Lys Asn Lys Lys Thr Asp Lys Tyr Ser Ser Tyr Pro Val Tyr His Thr
 530 535 540
 Ile Tyr Glu Thr Phe Glu Leu Val Glu Lys Phe Tyr Asp Pro Thr Phe
 545 550 555 560
 Lys Lys Gln Leu Ser Val Ala Gln Leu Arg Gly Ala Leu Val Tyr Glu
 565 570 575
 Leu Val Asp Ser Lys Ile Ile Pro Phe Asn Ile Gln Asp Tyr Ala Glu
 580 585 590
 Ala Leu Lys Asn Tyr Ala Ala Ser Ile Tyr Asn Leu Ser Lys Lys His
 595 600 605
 Asp Gln Gln Leu Thr Asp His Gly Val Ser Phe Asp Ser Leu Phe Ser
 610 615 620
 Ala Val Lys Asn Phe Ser Glu Ala Ala Ser Asp Phe His Lys Arg Leu
 625 630 635 640
 Ile Gln Val Asp Leu Asn Asn Pro Ile Ala Val Arg Met Met Asn Asp
 645 650 655
 Gln Leu Met Leu Leu Glu Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro
 660 665 670
 Gly Lys Leu Phe Tyr Arg His Ile Ile Phe Ala Pro Ser Ser His Asn
 675 680 685
 Lys Tyr Ala Gly Glu Ser Phe Pro Gly Ile Tyr Asp Ala Ile Phe Asp
 690 695 700
 Ile Glu Asn Lys Ala Asn Ser Arg Leu Ala Trp Lys Glu Val Lys Lys
 705 710 715 720
 His Ile Ser Ile Ala Ala Phe Thr Ile Gln Ala Ala Ala Gly Thr Leu
 725 730 735
 Lys Glu Val Leu *
 740

<210> 1534
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1534
 Met Leu Ile Leu Leu His Ile Leu Lys Asn Ile Lys Leu Tyr Leu Val
 1 5 10 15
 Asn Met Leu Lys Thr Lys Leu Cys Phe Tyr Lys Asp Arg Gly Ser Pro
 20 25 30
 Glu Glu Gly Ile Asp Lys Glu Glu Met Lys Leu Gly Gly Arg Lys Trp
 35 40 45
 Thr *
 49

<210> 1535
 <211> 973
 <212> PRT
 <213> Homo sapiens

<400> 1535
 Met Val Lys Ser Lys Trp Gly Leu Ala Leu Ala Ala Val Val Thr Val

1				5					10					15	
Leu	Ser	Ser	Leu	Leu	Met	Ser	Val	Gly	Leu	Cys	Thr	Leu	Phe	Gly	Leu
			20					25					30		
Thr	Pro	Thr	Leu	Asn	Gly	Gly	Glu	Ile	Phe	Pro	Tyr	Leu	Val	Val	Val
		35					40					45			
Ile	Gly	Leu	Glu	Asn	Val	Leu	Val	Leu	Thr	Lys	Ser	Val	Val	Ser	Thr
	50					55				60					
Pro	Val	Asp	Leu	Glu	Val	Lys	Leu	Arg	Ile	Ala	Gln	Gly	Leu	Ser	Ser
65					70					75					80
Glu	Ser	Trp	Ser	Ile	Met	Lys	Asn	Met	Ala	Thr	Glu	Leu	Gly	Ile	Ile
				85					90					95	
Leu	Ile	Gly	Tyr	Phe	Thr	Leu	Val	Pro	Ala	Ile	Gln	Glu	Phe	Cys	Leu
			100					105					110		
Phe	Ala	Val	Val	Gly	Leu	Val	Ser	Asp	Phe	Phe	Leu	Gln	Met	Leu	Phe
		115					120					125			
Phe	Thr	Thr	Val	Leu	Ser	Ile	Asp	Ile	Arg	Arg	Met	Glu	Leu	Ala	Asp
	130					135					140				
Leu	Asn	Lys	Arg	Leu	Pro	Pro	Glu	Ala	Cys	Leu	Pro	Ser	Ala	Lys	Pro
145					150					155					160
Val	Gly	Gln	Pro	Thr	Arg	Tyr	Glu	Arg	Gln	Leu	Ala	Val	Arg	Pro	Ser
			165						170					175	
Thr	Pro	His	Thr	Ile	Thr	Leu	Gln	Pro	Ser	Ser	Phe	Arg	Asn	Leu	Arg
		180						185					190		
Leu	Pro	Lys	Arg	Leu	Arg	Val	Val	Tyr	Phe	Leu	Ala	Arg	Thr	Arg	Leu
		195					200					205			
Ala	Gln	Arg	Leu	Ile	Met	Ala	Gly	Thr	Val	Val	Trp	Ile	Gly	Ile	Leu
	210					215					220				
Val	Tyr	Thr	Asp	Pro	Ala	Gly	Leu	Arg	Asn	Tyr	Leu	Ala	Ala	Gln	Val
225					230					235					240
Thr	Glu	Gln	Ser	Pro	Leu	Gly	Glu	Gly	Ala	Leu	Ala	Pro	Met	Pro	Val
			245						250					255	
Pro	Ser	Gly	Met	Leu	Pro	Pro	Ser	His	Pro	Asp	Pro	Ala	Phe	Ser	Ile
			260					265					270		
Phe	Pro	Pro	Asp	Ala	Pro	Lys	Leu	Pro	Glu	Asn	Gln	Thr	Ser	Pro	Gly
		275					280					285			
Glu	Ser	Pro	Glu	Arg	Gly	Gly	Pro	Ala	Glu	Val	Val	His	Asp	Ser	Pro
	290					295					300				
Val	Pro	Glu	Val	Thr	Trp	Gly	Pro	Glu	Asp	Glu	Glu	Leu	Trp	Arg	Lys
305					310					315					320
Leu	Ser	Phe	Arg	His	Trp	Pro	Thr	Leu	Phe	Ser	Tyr	Tyr	Asn	Ile	Thr
			325						330					335	
Leu	Ala	Lys	Arg	Tyr	Ile	Ser	Leu	Leu	Pro	Val	Ile	Pro	Val	Thr	Leu
			340					345					350		
Arg	Leu	Asn	Pro	Arg	Glu	Ala	Leu	Glu	Gly	Arg	His	Pro	Gln	Asp	Gly
		355					360					365			
Arg	Ser	Ala	Trp	Pro	Pro	Pro	Gly	Pro	Ile	Pro	Ala	Gly	His	Trp	Glu
	370					375					380				
Ala	Gly	Pro	Lys	Gly	Pro	Gly	Gly	Val	Gln	Ala	His	Gly	Asp	Val	Thr
385					390					395					400
Leu	Tyr	Lys	Val	Ala	Ala	Leu	Gly	Leu	Ala	Thr	Gly	Ile	Val	Leu	Val
			405						410					415	
Leu	Leu	Leu	Leu	Cys	Leu	Tyr	Arg	Val	Leu	Cys	Pro	Arg	Asn	Tyr	Gly
			420					425					430		
Gln	Leu	Gly	Gly	Gly	Pro	Gly	Arg	Arg	Arg	Arg	Gly	Glu	Leu	Pro	Cys
		435					440					445			
Asp	Asp	Tyr	Gly	Tyr	Ala	Pro	Pro	Glu	Thr	Glu	Ile	Val	Pro	Leu	Val
	450					455					460				
Leu	Arg	Gly	His	Leu	Met	Asp	Ile	Glu	Cys	Leu	Ala	Ser	Asp	Gly	Met
465					470					475					480

```

Leu Leu Val Ser Cys Cys Leu Ala Gly His Val Cys Val Trp Asp Ala
      485                      490                      495
Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln Arg
      500                      505                      510
Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp Glu
      515                      520                      525
Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp Ser
      530                      535                      540
Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Pro Ser Leu Phe
      545                      550                      555                      560
Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser Ala
      565                      570                      575
Gln Pro Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg Ala
      580                      585                      590
Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys Leu
      595                      600                      605
Val Gln Arg Val Tyr Gln Glu Glu Gly Leu Ala Ala Val Cys Thr Pro
      610                      615                      620
Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro Glu
      625                      630                      635                      640
Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp Ala
      645                      650                      655
Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn Leu
      660                      665                      670
Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala Ile
      675                      680                      685
Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile Thr
      690                      695                      700
Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn Gly
      705                      710                      715                      720
Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro Leu
      725                      730                      735
Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro Val
      740                      745                      750
Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val Pro
      755                      760                      765
Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Ala Gly Arg
      770                      775                      780
Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu Glu
      785                      790                      795                      800
Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile Thr
      805                      810                      815
Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln Asp
      820                      825                      830
Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser His
      835                      840                      845
Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr Ser
      850                      855                      860
Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp Arg
      865                      870                      875                      880
Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys Gly
      885                      890                      895
Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly Gln
      900                      905                      910
Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln Thr
      915                      920                      925
Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile Leu
      930                      935                      940
Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu Ser

```



```

Pro Ile Thr Val Thr Gly Ala Gln Val Leu Ser Lys Val Gly Gly Ser
      20      25      30
Val Leu Leu Val Ala Ala Arg Pro Pro Gly Phe Gln Val Arg Glu Ala
      35      40      45
Ile Trp Arg Ser Leu Trp Pro Ser Glu Glu Leu Leu Ala Thr Phe Phe
      50      55      60
Arg Gly Ser Leu Glu Thr Leu Tyr His Ser Arg Phe Leu Gly Arg Ala
      65      70      75      80
Gln Leu His Ser Asn Leu Ser Leu Glu Leu Gly Pro Leu Glu Ser Gly
      85      90      95
Asp Ser Gly Asn Phe Ser Val Leu Met Val Asp Thr Arg Gly Gln Pro
      100      105      110
Trp Thr Gln Thr Leu Gln Leu Lys Val Tyr Asp Ala Val Pro Arg Pro
      115      120      125
Val Val Gln Val Phe Ile Ala Val Glu Arg Asp Ala Gln Pro Ser Lys
      130      135      140
Thr Cys Gln Val Phe Leu Ser Cys Trp Ala Pro Asn Ile Ser Glu Ile
      145      150      155      160
Thr Tyr Ser Trp Arg Arg Glu Thr Thr Met Asp Phe Gly Met Glu Pro
      165      170      175
His Ser Leu Phe Thr Asp Gly Gln Val Leu Ser Ile Ser Leu Gly Pro
      180      185      190
Gly Asp Arg Asp Val Ala Tyr Ser Cys Ile Val Ser Asn Pro Val Ser
      195      200      205
Trp Asp Leu Ala Thr Val Thr Pro Trp Asp Ser Cys His His Glu Ala
      210      215      220
Ala Pro Gly Lys Ala Ser Tyr Lys Asp Val Leu Leu Val Val Val Pro
      225      230      235      240
Val Ser Leu Leu Leu Met Leu Val Thr Leu Phe Ser Ala Trp His Trp
      245      250      255
Cys Pro Cys Ser Gly Pro His Leu Arg Ser Lys Gln Leu Trp Met Arg
      260      265      270
Trp Asp Leu Gln Leu Ser Leu His Lys Val Thr Leu Ser Asn Leu Ile
      275      280      285
Ser Thr Val Val Cys Ser Val Val His Gln Gly Leu Val Glu Gln Ile
      290      295      300
His Thr Ala Leu Ile Lys Phe Pro Ser Leu Met Lys Lys Lys
      305      310      315      318

```

<210> 1539
 <211> 157
 <212> PRT
 <213> Homo sapiens

```

      <400> 1539
Met Ile Leu Gln Val Ser Gly Gly Pro Trp Thr Val Ala Leu Thr Ala
  1      5      10      15
Leu Leu Met Val Leu Leu Ile Ser Val Val Gln Ser Arg Ala Thr Pro
      20      25      30
Glu Asn Ser Val Tyr Gln Glu Arg Gln Glu Cys Tyr Ala Phe Asn Gly
      35      40      45
Thr Gln Arg Val Val Asp Gly Leu Ile Tyr Asn Arg Glu Glu Tyr Val
      50      55      60
His Phe Asp Ser Ala Val Gly Glu Phe Leu Ala Val Met Glu Leu Gly
      65      70      75      80
Arg Pro Ile Gly Glu Tyr Phe Asn Ser Gln Lys Asp Phe Met Glu Arg

```


				85					90					95			
Lys	Arg	Ala	Glu	Val	Asp	Lys	Val	Cys	Arg	His	Lys	Tyr	Glu	Leu	Met		
			100					105					110				
Glu	Pro	Leu	Ile	Arg	Gln	Arg	Arg	Gly	Asp	Val	Thr	Ile	Thr	Ala	Val		
		115					120					125					
Arg	Gly	Cys	Trp	Thr	Thr	Ile	Leu	Ser	Gly	Tyr	Phe	Leu	Leu	Lys	Arg		
	130					135					140						
Gly	Val	Val	Ser	Gly	Gly	Cys	Ser	Trp	Gly	Ser	Ser	*					
145					150					155	156						

<210> 1540
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 1540

Met	Gly	Ser	Ser	Phe	Ile	Leu	Ala	Leu	Leu	Leu	Ala	Val	Leu	Gln	Gly		
1				5				10					15				
Leu	Ser	Ala	Gly	Val	Leu	Leu	Glu	Gln	Ser	Arg	Ala	Glu	Val	Lys	Lys		
		20					25					30					
Pro	Gly	Glu	Ser	Leu	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Arg	Phe		
	35					40					45						
Thr	Ser	Ala	Trp	Ile	Ala	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu		
	50					55				60							
Glu	Trp	Met	Gly	Thr	Ile	Tyr	Pro	Ala	Asp	Ser	Glu	Val	Arg	Tyr	Ser		
	65			70				75							80		
Pro	Ser	Leu	Gln	Gly	Gln	Val	Thr	Leu	Ser	Val	Asp	Glu	Ser	Ile	Ser		
			85					90						95			
Thr	Ala	Tyr	Leu	Gln	Trp	Asn	Ser	Leu	Arg	Ala	Ser	Asp	Thr	Ala	Thr		
	100						105					110					
Tyr	Tyr	Cys	Ala	Arg	Gln	Ile	Ile	Gly	Ala	Leu	Pro	Thr	Asp	Pro	Phe		
	115					120					125						
Asp	Leu	Leu	Gly	Gln	Gly	Thr											
130					135												

<210> 1541
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1541

Met	Cys	Val	Thr	Cys	Val	Val	Cys	Met	Trp	Cys	Met	Cys	Gly	Val	Cys		
1				5				10					15				
Ala	Met	Tyr	Val	Ala	Cys	Val	Met	His	Val	Val	Cys	Glu	Val	Tyr	Val		
		20					25					30					
Trp	Tyr	Val	Cys	Asp	Val	Cys	Ala	Phe	Gly	His	Thr	Gly	Val	Val	Ile		
	35					40					45						
Ala	Leu	Thr	Trp	Thr	Pro	Pro	Gln	Arg	Val	Ile	Arg	Lys	Gly	Gln	Val		
	50					55				60							
Leu	Arg	Leu	Ala	Cys	Ser	Gln	*										
65					70	71											

<210> 1542
 <211> 369
 <212> PRT
 <213> Homo sapiens

<400> 1542
 Met Ala Pro Arg Thr Leu Val Leu Leu Leu Ser Gly Ala Leu Ala Leu
 1 5 10 15
 Thr Gln Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser
 20 25 30
 Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr
 35 40 45
 Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln
 50 55 60
 Arg Met Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr
 65 70 75 80
 Trp Asp Gly Glu Thr Arg Lys Val Lys Ala His Ser Gln Thr His Arg
 85 90 95
 Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly
 100 105 110
 Ser His Thr Val Gln Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp
 115 120 125
 Arg Phe Leu Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr
 130 135 140
 Ile Ala Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala
 145 150 155 160
 Ala Gln Thr Thr Lys His Lys Trp Glu Ala Ala His Val Ala Glu Gln
 165 170 175
 Leu Arg Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr
 180 185 190
 Leu Glu Asn Gly Lys Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr
 195 200 205
 His Met Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys
 210 215 220
 Trp Ala Leu Ser Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg
 225 230 235 240
 Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro
 245 250 255
 Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser
 260 265 270
 Gly Gln Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro
 275 280 285
 Lys Pro Leu Thr Leu Arg Trp Glu Pro Ser Ser Gln Pro Thr Ile Pro
 290 295 300
 Ile Val Gly Ile Ile Ala Gly Leu Val Leu Phe Gly Ala Val Ile Thr
 305 310 315 320
 Gly Ala Val Val Ala Ala Val Met Trp Arg Arg Lys Ser Ser Asp Arg
 325 330 335
 Lys Gly Val Lys Asp Arg Lys Gly Gly Ser Tyr Ser Gln Ala Ala Ser
 340 345 350
 Ser Asp Ser Ala Gln Gly Ser Asp Val Ser Leu Thr Ala Cys Lys Val
 355 360 365 368

*

<210> 1543
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1543
 Met Arg Ser Leu Trp Lys Ala Asn Arg Ala Asp Leu Leu Ile Trp Leu
 1 5 10 15
 Val Thr Phe Thr Ala Thr Ile Leu Leu Asn Leu Asp Leu Gly Leu Glu
 20 25 30
 Asp Ala Val Ile Phe Ser Leu Leu Leu Glu Glu Val Arg Thr Gln Met
 35 40 45 48
 *

<210> 1544
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1544
 Met Lys Ile Phe Lys Cys Tyr Phe Lys His Thr Leu Gln Gln Lys Val
 1 5 10 15
 Phe Ile Leu Phe Leu Thr Leu Trp Leu Leu Ser Leu Leu Lys Leu Leu
 20 25 30
 Asn Val Arg Arg Leu Phe Pro Gln Lys Asp Ile Tyr Leu Val Glu Tyr
 35 40 45
 Ser Leu Ser Thr Ser Pro Phe Val Arg Asn Arg Tyr Thr His Val Lys
 50 55 60
 Asp Glu Val Arg Tyr Glu Val Asn Cys Ser Gly Ile Tyr Glu Gln Glu
 65 70 75 80
 Pro Leu Glu Ile Gly Lys Ser Leu Glu Ile Arg Arg Arg Asp Ile Ile
 85 90 95
 Asp Leu Glu Asp Asp Asp Val Val Ala Met Thr Ser Asp Cys Asp Ile
 100 105 110
 Tyr Gln Thr Leu Lys Gly Tyr Ala *
 115 120

<210> 1545
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1545
 Met Phe Leu Leu Lys Trp Pro Leu Trp Val Leu Gln Tyr Val Val Cys
 1 5 10 15
 Ser Leu Lys Asp Lys Ile His Lys Phe Tyr Ile Glu Arg Val Val
 20 25 30
 Gly Glu Leu Arg Val Leu Pro Gln Gly Trp Met Val Ala Leu Ile Leu
 35 40 45
 Arg Lys Asp Phe Val Leu Pro Ser Pro Ser Asp Val Val Asn Ala Ser
 50 55 60

Gln Pro Gly Gln Val *
65 69

<210> 1546
<211> 58
<212> PRT
<213> Homo sapiens

<400> 1546
Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
1 5 10 15
Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
20 25 30
Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
35 40 45
Cys Cys Val Val Met Ser Pro Leu Pro *
50 55 57

<210> 1547
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1547
Met Trp Leu His Glu Asn Leu Gln Phe Leu Leu Gln Leu Ile Phe His
1 5 10 15
Phe Tyr Trp Thr Val Pro Pro Trp Arg Asp Trp Cys Lys Val Ile Gln
20 25 30
Gln Ala Arg Asp Arg Pro Gly Pro Asn Pro Leu Leu Pro Leu Arg Met
35 40 45
Gly Ala Trp His Leu Pro Gly His Asp Gly Leu Gly Arg Val Cys Thr
50 55 60 64
*

<210> 1548
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1548
Met Phe Ile Ile Phe Leu Ala Phe Ile Ala Leu Lys Arg Ser Lys Ser
1 5 10 15
Val Ile Gly Ala Phe Leu Tyr Leu Ala Ser Ile Phe Leu Ala His Gly
20 25 30
Val Ala Ala His Ile Val Phe Met Ser Ala Phe Tyr Gln Ala Cys Arg
35 40 45
Thr Tyr Leu Trp Trp Ala Leu Cys Glu Asn Leu Arg Met Lys Ser Val
50 55 60
Ser Cys Met Leu Leu Lys Gly Met Ala Cys Leu Leu Thr *

65

70

75

77

<210> 1549
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1549
 Met Leu Tyr Ile Glu Cys Lys Ser His Lys Leu Val Ala Pro Leu Ala
 1 5 10 15
 Val Phe Phe Ala Leu Phe Phe Leu Leu Ile Phe Phe Trp Val Ala Phe
 20 25 30
 Ser Tyr Pro Phe Glu Leu Leu Phe Leu Gln Leu Arg Ser Arg Gln Ala
 35 40 45
 Asp Ile Gly Val Gln *
 50 53

<210> 1550
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1550
 Met Val Asn Thr Trp Leu Ala Ala Cys Cys Thr Val Val Thr Trp Phe
 1 5 10 15
 Pro Lys Met Ser Met Leu Pro Leu Pro Pro Ser Lys Pro Ser Ala Arg
 20 25 30
 Ser Ser Leu Trp Ile Gly Ala Pro Leu Ala Ser Arg Leu Ala Ser Thr
 35 40 45
 Thr Ser Leu Pro Leu Trp Cys Leu Val Glu Thr Trp Pro Arg Tyr Arg
 50 55 60
 Glu Leu Cys Ala Cys *
 65 69

<210> 1551
 <211> 224
 <212> PRT
 <213> Homo sapiens

<400> 1551
 Met Arg Gln Ile Asn Lys Lys Gly Phe Trp Ser Tyr Gly Pro Val Ile
 1 5 10 15
 Leu Val Val Leu Val Val Ala Val Val Ala Ser Ser Val Asn Ser Tyr
 20 25 30
 Tyr Ser Ser Pro Ala Gln Gln Val Pro Lys Asn Pro Ala Leu Glu Ala
 35 40 45
 Phe Leu Ala Gln Phe Ser Gln Leu Glu Asp Lys Phe Pro Gly Gln Ser
 50 55 60
 Ser Phe Leu Trp Gln Arg Gly Arg Lys Phe Leu Gln Lys His Leu Asn
 65 70 75 80

```

Ala Ser Asn Pro Thr Glu Pro Ala Thr Ile Ile Phe Thr Ala Ala Arg
      85                      90                      95
Glu Gly Arg Glu Thr Leu Lys Cys Leu Ser His His Val Ala Asp Ala
      100                    105                    110
Tyr Thr Ser Ser Gln Lys Val Ser Pro Ile Gln Ile Asp Gly Ala Gly
      115                    120                    125
Arg Thr Trp Gln Asp Ser Asp Thr Val Lys Leu Leu Val Asp Leu Glu
      130                    135                    140
Leu Ser Tyr Gly Phe Glu Asn Gly Gln Lys Ala Ala Val Val His His
      145                    150                    155                    160
Phe Glu Ser Phe Pro Ala Gly Ser Thr Leu Ile Phe Tyr Lys Tyr Cys
      165                    170                    175
Asp His Glu Asn Ala Ala Phe Lys Asp Val Ala Leu Val Leu Thr Val
      180                    185                    190
Leu Leu Glu Glu Glu Thr Leu Glu Ala Ser Val Gly Pro Arg Glu Thr
      195                    200                    205
Glu Glu Lys Val Arg Asp Leu Leu Trp Ala Lys Phe Thr Asn Ser *
      210                    215                    220                    223

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<210> 1552
<211> 57
<212> PRT
<213> Homo sapiens

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```

<400> 1552
Met Arg Gln Lys Phe Leu Lys Pro Leu Leu Ile Leu Leu His Arg Leu
  1      5      10      15
Lys Leu Gly Ser Leu Tyr Thr Pro Ser Ser Val Ala Arg Tyr Asp Ser
      20      25      30
Ser Val Asn Glu Asn Arg Ser Val Asn Ser Ser Ala Tyr Glu Glu Ala
      35      40      45
Lys Glu Leu Met Leu Ser Met Asn *
      50      55      56

```

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<210> 1553
<211> 241
<212> PRT
<213> Homo sapiens

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<400> 1553
Met Ser Cys Val Leu Gly Gly Val Ile Pro Leu Gly Leu Leu Phe Leu
  1      5      10      15
Val Cys Gly Ser Gln Gly Tyr Leu Leu Pro Asn Val Thr Leu Leu Glu
      20      25      30
Glu Leu Leu Ser Lys Tyr Gln His Asn Glu Ser His Ser Arg Val Arg
      35      40      45
Arg Ala Ile Pro Arg Glu Asp Lys Glu Glu Ile Leu Met Leu His Asn
      50      55      60
Lys Leu Arg Gly Gln Val Gln Pro Gln Ala Ser Asn Met Glu Tyr Met
      65      70      75      80
Thr Trp Asp Asp Glu Leu Glu Lys Ser Ala Ala Ala Trp Ala Ser Gln
      85      90      95
Cys Ile Trp Glu His Gly Pro Thr Ser Leu Leu Val Ser Ile Gly Gln

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```

      100      105      110
Asn Leu Gly Ala His Trp Gly Arg Tyr Arg Ser Pro Gly Phe His Val
      115      120      125
Gln Ser Trp Tyr Asp Glu Val Lys Asp Tyr Thr Tyr Pro Tyr Pro Ser
      130      135      140
Glu Cys Asn Pro Trp Cys Pro Glu Arg Cys Ser Gly Pro Met Cys Thr
      145      150      155      160
His Tyr Thr Gln Ile Val Trp Ala Thr Thr Asn Lys Ile Gly Cys Ala
      165      170      175
Val Asn Thr Cys Arg Lys Met Thr Val Trp Gly Glu Val Trp Glu Asn
      180      185      190
Ala Val Tyr Phe Val Cys Asn Tyr Ser Pro Lys Gly Asn Trp Ile Gly
      195      200      205
Glu Ala Pro Tyr Lys Asn Gly Arg Pro Cys Ser Glu Cys Pro Pro Ser
      210      215      220
Tyr Gly Gly Ser Cys Arg Asn Asn Leu Cys Tyr Arg Glu Glu Thr Tyr
      225      230      235      240
Thr
      241

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<210> 1554
<211> 56
<212> PRT
<213> Homo sapiens

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      <400> 1554
Met Leu Thr Ser Ser Gly Cys Glu Lys His Leu Ser Leu Ala Ser Val
  1      5      10      15
Ser Ser Leu Ser Leu Phe Cys Val Cys Cys Ser Ser Cys Gln Leu Leu
      20      25      30
Trp Glu Asn Glu Cys Glu Arg Gly Ser Gln Arg Gly Trp Pro Pro Gln
      35      40      45
Cys Lys Trp Gly Ser Ala Val *
      50      55

```

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<210> 1555
<211> 64
<212> PRT
<213> Homo sapiens

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```

      <400> 1555
Met Tyr Gly Trp Thr Met Thr Ser Thr Ile Ser Cys Val Phe Trp Ala
  1      5      10      15
Cys Pro Gln Arg Lys Lys Gly Leu Cys Lys Arg Glu Gly Val Gly Ser
      20      25      30
Ser Ile Leu Ile His Ser Leu Ala Ala Phe Val Met Phe Asp Cys Asn
      35      40      45
Leu Pro Leu Leu Val Arg Arg Val Arg Arg Ile His Tyr Pro Ala *
      50      55      60      63

```

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<210> 1556

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<211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1556
 Met Ser Arg Pro Met Met Thr Ser Ala Ser Trp Thr Ser Val Trp Ser
 1 5 10 15
 Val Phe Val Met Ile Tyr Leu Tyr Phe Glu Arg Lys Tyr Val Leu Pro
 20 25 30
 Leu Leu Gly Val Val Phe Tyr Thr Ile Ile Ser Asn Asp Ala Phe Ala
 35 40 45
 Leu Glu Ser Leu Leu Ser Gly Ile Ser Thr Ser Ala Phe Phe Cys Lys
 50 55 60
 Glu Leu Met Cys Ile Leu *
 65 70

<210> 1557
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 1557
 Met Gln Thr His Leu Gly Ala Ser Cys Leu Ser Leu Val Ile Arg Ile
 1 5 10 15
 Ala Leu Leu Phe Leu Val Gln Arg Asp Gly His Leu His Ser Arg Arg
 20 25 30
 Glu Ile Tyr Ala Ile Phe Thr Lys Gly Ser Leu Cys Pro Ala Phe Lys
 35 40 45
 Trp Ala Arg Val Gly Arg Glu Leu Phe Leu His Leu Leu Leu Ser Asn
 50 55 60
 Cys His Gln Leu Lys Ile Ile Leu Ile Pro Lys Cys His Ile Leu Gly
 65 70 75 80
 Trp His Ile Leu Ile Pro Phe Thr Ser Lys Ile Trp Asp Ser Tyr Phe
 85 90 95
 Ile Val Gln Cys Phe Ser His Phe Thr Leu Ala Asn Val Phe Met
 100 105 110
 Glu Glu Asp Asn Pro Val Ser Glu Leu Gln Val Phe Gln *
 115 120 125

<210> 1558
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 1558
 Met Lys Gly Ser Ile Phe Thr Leu Phe Leu Phe Ser Val Leu Phe Ala
 1 5 10 15
 Ile Ser Glu Val Arg Ser Lys Glu Ser Val Arg Leu Cys Gly Leu Glu
 20 25 30
 Tyr Ile Arg Thr Val Ile Tyr Ile Cys Ala Ser Ser Arg Trp Arg Arg
 35 40 45
 His Leu Glu Gly Ile Pro Gln Ala Gln Gln Ala Glu Thr Gly Asn Ser


```

      50              55              60
Phe Gln Leu Pro His Lys Arg Glu Phe Ser Glu Glu Asn Pro Ala Gln
 65              70              75              80
Asn Leu Pro Lys Val Asp Ala Ser Gly Glu Asp Arg Leu Trp Gly Gly
      85              90              95
Gln Met Pro Thr Glu Glu Leu Trp Lys Ser Lys Lys His Ser Val Met
      100              105              110
Ser Arg Gln Asp Leu Gln Thr Leu Cys Cys Thr Asp Gly Cys Ser Met
      115              120              125
Thr Asp Leu Ser Ala Leu Cys
      130              135

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<210> 1559
 <211> 203
 <212> PRT
 <213> Homo sapiens

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      <400> 1559
Met Glu Leu Trp Gly Ala Tyr Leu Leu Leu Cys Leu Phe Ser Leu Leu
 1              5              10              15
Thr Gln Val Thr Thr Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val
      20              25              30
Asn Ala Lys Lys Asp Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys
      35              40              45
Ser Arg Leu Asp Thr Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln
      50              55              60
Gln Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys
      65              70              75              80
Cys Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu
      85              90              95
Asp Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser
      100              105              110
Glu Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu
      115              120              125
Ala Glu Ile Trp Leu Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp
      130              135              140
Val Asp Met Thr Gly Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu
      145              150              155              160
Ile Thr Ala Gln Pro Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu
      165              170              175
Ser Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln
      180              185              190
Leu Pro Tyr Ile Cys Gln Phe Gly Ile Val *
      195              200              202

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<210> 1560
 <211> 59
 <212> PRT
 <213> Homo sapiens

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      <400> 1560
Met Met Gly Val Ser Gly Cys Met Val Leu Leu Ala Pro Leu Leu Ala
 1              5              10              15

```

Arg Arg Ser Gln Ser Ser Leu Trp Lys Gln Phe Glu Lys Cys Ser Ala
 20 25 30
 Gly Pro Lys Leu Met Leu Ser Lys Phe Leu Pro Trp Gly Lys Leu Ala
 35 40 45
 Met Pro Ser Arg Met Ser Asn Phe Ser Pro *

<210> 1561
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1561
 Met Lys Phe Ser Asn Val Leu Cys Thr Cys Leu Leu Ile Leu Gln Lys
 1 5 10 15
 Val Lys Leu Phe Tyr Lys Thr Val His Glu Asn Ser Ser Phe Leu Pro
 20 25 30
 Cys Phe Ser His Leu Ile Pro Ser Pro Gln Arg Asn Leu Ser Ser Ile
 35 40 45
 Phe *

<210> 1562
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1562
 Met Leu Phe Ser Ala Val Lys Leu Tyr Cys Cys Gln Phe Trp His Leu
 1 5 10 15
 Ile Leu Asn Arg Val Pro Ser Pro Ser Leu Leu Tyr Ser Cys Gly Leu
 20 25 30
 Ser Thr Asn Val Leu Asn Thr Thr Val Cys Tyr Val Arg Asp Lys Lys
 35 40 45 48
 *

<210> 1563
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1563
 Met Glu Arg Leu Arg Gly Lys Cys Leu Leu Ile Ile Ala Leu Met Thr
 1 5 10 15
 Pro Leu Cys Thr Thr Thr Ile Ser Ser Ser Cys Ile Glu Gly Ser Ala
 20 25 30
 Asn Phe Phe Cys Lys Glu Pro Gly Ser Asn Cys Val Phe Glu Ala Leu
 35 40 45
 Trp Ala Ile Trp Ser Val Gly Gln Leu Leu Ser Ser Ser Val Val Ala

60

	<400> 1565														
Met	Pro	Arg	Arg	Gly	Leu	Ile	Leu	His	Thr	Arg	Thr	His	Trp	Leu	Leu
1				5					10					15	
Leu	Gly	Leu	Ala	Leu	Leu	Cys	Ser	Leu	Val	Leu	Phe	Met	Tyr	Leu	Leu
			20					25					30		
Glu	Cys	Ala	Pro	Gln	Thr	Asp	Gly	Asn	Ala	Ser	Leu	Pro	Gly	Val	Val
			35				40					45			
Gly	Glu	Asn	Tyr	Gly	Lys	Glu	Tyr	Tyr	Gln	Ala	Leu	Leu	Gln	Glu	Gln
	50					55					60				
Glu	Glu	His	Tyr	Gln	Thr	Arg	Ala	Thr	Ser	Leu	Lys	Arg	Gln	Ile	Ala
65					70					75					80
Gln	Leu	Lys	Gln	Glu	Leu	Gln	Glu	Met	Ser	Glu	Lys	Met	Arg	Ser	Leu
				85					90				95		
Gln	Glu	Arg	Arg	Asn	Val	Gly	Ala	Asn	Gly	Ile	Gly	Tyr	Gln	Ser	Asn
			100					105					110		
Lys	Glu	Gln	Ala	Pro	Ser	Asp	Leu	Leu	Glu	Phe	Leu	His	Ser	Gln	Ile
			115				120					125			
Asp	Lys	Ala	Glu	Val	Ser	Ile	Gly	Ala	Lys	Leu	Pro	Ser	Glu	Tyr	Gly
	130					135					140				
Val	Ile	Pro	Phe	Glu	Ser	Phe	Thr	Leu	Met	Lys	Val	Phe	Gln	Leu	Glu
145					150					155					160
Met	Gly	Leu	Thr	Arg	His	Pro	Glu	Glu	Lys	Pro	Val	Arg	Lys	Asp	Lys
				165					170					175	
Arg	Asp	Glu	Leu	Val	Glu	Val	Ile	Glu	Ala	Gly	Leu	Glu	Val	Ile	Asn
			180					185					190		
Asn	Pro	Asp	Glu	Asp	Asp	Glu	Gln	Glu	Asp	Glu	Glu	Gly	Pro	Leu	Gly
		195					200					205			
Glu	Lys	Leu	Ile	Phe	Asn	Glu	Asn	Asp	Phe	Val	Glu	Gly	Tyr	Tyr	Arg
	210					215					220				

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<210> 1566
<211> 77
<212> PRT
<213> Homo sapiens
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<210> 1567
<211> 104
<212> PRT
<213> Homo sapiens
```

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<210> 1568
<211> 46
<212> PRT
<213> Homo sapiens
```

886

			20					25					30	
Ala	Glu	Lys	Asn	Met	His	Leu	Thr	Asn	His	Val	Asn	Ser	*	
		35					40					45		

<210> 1569
 <211> 50
 <212> PRT
 <213> Homo sapiens

Met	Leu	Met	Met	Asp	Thr	Leu	Trp	Pro	Ile	Leu	Leu	Gln	Thr	Leu	Lys
1				5					10					15	
Val	Ile	Ser	Gln	Val	Gly	His	Ala	Gly	Pro	Leu	Ala	Asn	Met	Ile	His
			20					25					30		
Asp	Asn	Pro	Cys	Ile	Ile	Ala	Tyr	Arg	Ile	Thr	Leu	Arg	Leu	Val	Gly
		35					40					45			
Pro	*														
49															

<210> 1570
 <211> 50
 <212> PRT
 <213> Homo sapiens

Met	Val	Gly	Phe	Asp	Leu	Leu	Pro	Leu	Leu	Phe	Phe	Pro	Phe	Phe	Phe
1				5					10					15	
Pro	Ser	Leu	Ile	Phe	Phe	Pro	Phe	Phe	Ser	Ser	Pro	Ser	Pro	Ser	Phe
			20					25					30		
Gln	Phe	Leu	Pro	His	Gln	Glu	Lys	Ser	Gln	His	Val	Phe	Pro	Pro	Asn
		35					40					45			
Ala	*														
49															

<210> 1571
 <211> 50
 <212> PRT
 <213> Homo sapiens

Met	Tyr	Leu	Trp	Val	Val	Arg	Trp	Lys	Trp	Cys	Leu	Gln	Lys	Leu	Gly
1				5					10					15	
Arg	Arg	Ile	Leu	Leu	His	Ser	Leu	His	Asp	Val	Phe	Ile	Ala	Asn	Met
			20					25					30		
Asp	Asp	Lys	Gly	Leu	Cys	Tyr	Arg	Gly	Leu	Arg	Ala	Pro	Ser	Phe	Leu
		35					40					45			
Leu	*														
49															

<210> 1572
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1572
 Met Ser Ser Gly Arg Asn Phe Gly Phe Cys Phe Gln Trp Leu Pro Trp
 1 5 10 15
 Ala Leu Val Ala Thr Trp Ala Ser Val Thr Val Leu Met Ser Ser His
 20 25 30
 Ser Ser Ser Val Gly Ser Gly Leu Cys Pro Met Asp Phe Cys Ser Ser
 35 40 45
 Ser Arg Arg Leu Phe Ser Arg Phe Ser Ser Ile Ser Phe Leu Leu Ala
 50 55 60
 Ser Leu Leu Leu Ser Ser Ser Thr Lys Ser Val Ala Met Pro Thr *
 65 70 75 79

<210> 1573
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1573
 Met Ile Asp Ile Val Arg Phe Ala Gly Leu Pro Ser Leu Leu Leu His
 1 5 10 15
 Ala Leu Cys Leu Ile Ser Leu Thr Tyr Pro Ser Ser Phe Arg His Ser
 20 25 30
 Ser Tyr Leu Ile Ser Pro Cys Ala Ser Phe Trp Ile Leu Tyr Leu Phe
 35 40 45
 Arg Pro Val *
 50 51

<210> 1574
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 1574
 Met Arg Leu Ser Leu Pro Leu Leu Leu Leu Leu Gly Ala Trp Ala
 1 5 10 15
 Ile Pro Gly Gly Leu Gly Val Met Ala Pro Leu Thr Ala Thr Ala Pro
 20 25 30
 Glu Val Asp Asp Glu Glu Met Tyr Ser Ala His Met Pro Ala His Leu
 35 40 45
 Arg Cys Asp Ala Cys Arg Ala Val Ala Tyr Gln Glu Cys Gly Pro Lys
 50 55 60
 Thr Leu Ala Lys Ala Glu Thr Lys Leu His Thr Ser Asn Ser Gly Gly
 65 70 75 80
 Arg Arg Asp Val Ser Glu Leu Val Tyr Thr Asp Val Leu Asp Arg Ser
 85 90 95
 Cys Ser Arg Asn Trp Gln Asp Tyr Gly Val Arg Glu Val Asp Gln Val

```

          100          105          110
Lys Arg Leu Thr Gly Pro Gly Leu Ser Glu Gly Pro Glu Pro Ser Ile
          115          120          125
Ser Val Met Val Thr Gly Gly Pro Trp His Thr Arg Leu Ser Arg Thr
          130          135          140
Cys Leu His Tyr Leu Gly Glu Phe Gly Glu Asp Gln Ile Tyr Glu Ala
145          150          155          160
His Gln Gln Gly Arg Gly Ala Leu Glu Ala Leu Leu Cys Gly Gly Pro
          165          170          175
Pro Gly Gly Leu Leu Arg Glu Gly Val Ser His Lys Arg Arg Ala Leu
          180          185          190
Val Leu Asp Ser Thr Leu Leu *
          195          199

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<210> 1575
<211> 51
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(51)
<223> Xaa = any amino acid or nothing

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<400> 1575
Met Leu Leu Gly Phe Gly Asn Val Phe Ile Leu Leu Ile Leu Xaa Thr
 1          5          10          15
Ala Ile Leu Trp Leu Lys Gly Ser Gln Arg Val Pro Glu Glu Pro Gly
          20          25          30
Glu Gln Pro Ile Tyr Met Asn Phe Ser Glu Pro Leu Thr Lys Asp Met
          35          40          45
Ala Thr *
          50

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<210> 1576
<211> 124
<212> PRT
<213> Homo sapiens

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<400> 1576
Met Arg Ile Arg Leu Leu Cys Cys Val Ala Phe Ser Leu Leu Trp Ala
 1          5          10          15
Gly Pro Val Ile Ala Gly Ile Thr Gln Ala Pro Thr Ser Gln Ile Leu
          20          25          30
Ala Ala Gly Arg Arg Met Thr Leu Arg Cys Thr Gln Asp Met Arg His
          35          40          45
Asn Ala Met Tyr Trp Tyr Arg Gln Asp Leu Gly Leu Gly Leu Arg Leu
          50          55          60
Ile His Tyr Ser Asn Thr Ala Gly Thr Thr Gly Lys Gly Glu Val Pro
          65          70          75          80
Asp Gly Tyr Ser Val Ser Arg Ala Asn Thr Asp Asp Phe Pro Leu Thr
          85          90          95
Leu Ala Ser Ala Val Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
          100          105          110

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Ser Asp Gly Ala Ser Gly Ser Pro His Thr Gly Glu
 115 120 124

<210> 1577
 <211> 860
 <212> PRT
 <213> Homo sapiens

<400> 1577
 Met Ala Cys Arg Trp Ser Thr Lys Glu Ser Pro Arg Trp Arg Ser Ala
 1 5 10 15
 Leu Leu Leu Leu Phe Leu Ala Gly Val Tyr Gly Asn Gly Ala Leu Ala
 20 25 30
 Glu His Ser Glu Asn Val His Ile Ser Gly Val Ser Thr Ala Cys Gly
 35 40 45
 Glu Thr Pro Glu Gln Ile Arg Ala Pro Ser Gly Ile Ile Thr Ser Pro
 50 55 60
 Gly Trp Pro Ser Glu Tyr Pro Ala Lys Ile Asn Cys Ser Trp Phe Ile
 65 70 75 80
 Arg Ala Asn Pro Gly Glu Ile Ile Thr Ile Ser Phe Gln Asp Phe Asp
 85 90 95
 Ile Gln Gly Ser Arg Arg Cys Asn Leu Asp Trp Leu Thr Ile Glu Thr
 100 105 110
 Tyr Lys Asn Ile Glu Ser Tyr Arg Ala Cys Gly Ser Thr Ile Pro Pro
 115 120 125
 Pro Tyr Ile Ser Ser Gln Asp His Ile Trp Ile Arg Phe His Ser Asp
 130 135 140
 Asp Asn Ile Ser Arg Lys Gly Phe Arg Leu Ala Tyr Phe Ser Gly Lys
 145 150 155 160
 Ser Glu Glu Pro Asn Cys Ala Cys Asp Gln Phe Arg Cys Gly Asn Gly
 165 170 175
 Lys Cys Ile Pro Glu Ala Trp Lys Cys Asn Asn Met Asp Glu Cys Gly
 180 185 190
 Asp Arg Ser Asp Glu Glu Ile Cys Ala Lys Glu Ala Asn Pro Pro Thr
 195 200 205
 Ala Ala Ala Phe Gln Pro Cys Ala Tyr Asn Gln Phe Gln Cys Leu Ser
 210 215 220
 Arg Phe Thr Lys Val Tyr Thr Cys Leu Pro Glu Ser Leu Lys Cys Asp
 225 230 235 240
 Gly Asn Ile Asp Cys Leu Asp Leu Gly Asp Glu Ile Asp Cys Asp Val
 245 250 255
 Pro Thr Cys Gly Gln Trp Leu Lys Tyr Phe Tyr Gly Thr Phe Asn Ser
 260 265 270
 Pro Asn Tyr Pro Asp Phe Tyr Pro Pro Gly Ser Asn Cys Thr Trp Leu
 275 280 285
 Ile Asp Thr Gly Asp His Arg Lys Val Ile Leu Arg Phe Thr Asp Phe
 290 295 300
 Lys Leu Asp Gly Thr Gly Tyr Gly Asp Tyr Val Lys Ile Tyr Asp Gly
 305 310 315 320
 Leu Glu Glu Asn Pro His Lys Leu Leu Arg Val Leu Thr Ala Phe Asp
 325 330 335
 Ser His Ala Pro Leu Thr Val Val Ser Ser Ser Gly Gln Ile Arg Val
 340 345 350
 His Phe Cys Ala Asp Lys Val Asn Ala Ala Arg Gly Phe Asn Ala Thr
 355 360 365
 Tyr Gln Val Asp Gly Phe Cys Leu Pro Trp Glu Ile Pro Cys Gly Gly

370	375	380
Asn Trp Gly Cys Tyr Thr	Glu Gln Gln Arg Cys Asp Gly Tyr Trp His	
385	390	395
Cys Pro Asn Gly Arg Asp	Glu Thr Asn Cys Thr Met Cys Gln Lys Glu	400
	405	410
Glu Phe Pro Cys Ser Arg	Asn Gly Val Cys Tyr Pro Arg Ser Asp Arg	415
	420	425
Cys Asn Tyr Gln Asn His	Cys Pro Asn Gly Ser Asp Glu Lys Asn Cys	430
	435	440
Phe Phe Cys Gln Pro Gly	Asn Phe His Cys Lys Asn Asn Arg Cys Val	445
	450	455
Phe Glu Ser Trp Val Cys	Asp Ser Gln Asp Asp Cys Gly Asp Gly Ser	460
465	470	475
Asp Glu Glu Asn Cys Pro	Val Ile Val Pro Thr Arg Val Ile Thr Ala	480
	485	490
Ala Val Ile Gly Ser Leu	Ile Cys Gly Leu Leu Leu Val Ile Ala Leu	495
	500	505
Gly Cys Thr Cys Lys Leu	Tyr Ser Leu Arg Met Phe Glu Arg Arg Ser	510
	515	520
Phe Glu Thr Gln Leu Ser	Arg Val Glu Ala Glu Leu Leu Arg Arg Glu	525
	530	535
Ala Pro Pro Ser Tyr Gly	Gln Leu Ile Ala Gln Gly Leu Ile Pro Pro	540
545	550	555
Val Glu Asp Phe Pro Val	Cys Ser Pro Asn Gln Ala Ser Val Leu Glu	560
	565	570
Asn Leu Arg Leu Ala Val	Arg Ser Gln Leu Gly Phe Thr Ser Val Arg	575
	580	585
Leu Pro Met Ala Gly Arg	Ser Ser Asn Ile Trp Asn Arg Ile Phe Asn	590
	595	600
Phe Ala Arg Ser Arg His	Ser Gly Ser Leu Ala Leu Val Ser Ala Asp	605
	610	615
Gly Asp Glu Val Val Pro	Ser Gln Ser Thr Ser Arg Glu Pro Glu Arg	620
625	630	635
Asn His Thr His Arg Ser	Leu Phe Ser Val Glu Ser Asp Asp Thr Asp	640
	645	650
Thr Glu Asn Glu Arg Arg	Asp Met Ala Gly Ala Ser Gly Gly Val Ala	655
	660	665
Ala Pro Leu Pro Gln Lys	Val Pro Pro Thr Thr Ala Val Glu Ala Thr	670
	675	680
Val Gly Ala Cys Ala Ser	Ser Ser Thr Gln Ser Thr Arg Gly Gly His	685
	690	695
Ala Asp Asn Gly Arg Asp	Val Thr Ser Val Glu Pro Pro Ser Val Ser	700
705	710	715
Pro Ala Arg His Gln Leu	Thr Ser Ala Leu Ser Arg Met Thr Gln Gly	720
	725	730
Leu Arg Trp Val Arg Phe	Thr Leu Gly Arg Ser Ser Ser Leu Ser Gln	735
	740	745
Asn Gln Ser Pro Leu Arg	Gln Leu Asp Asn Gly Val Ser Gly Arg Glu	750
	755	760
Asp Asp Asp Asp Val Glu	Met Leu Ile Pro Ile Ser Asp Gly Ser Ser	765
	770	775
Asp Phe Asp Val Asn Asp	Cys Ser Arg Pro Leu Leu Asp Leu Ala Ser	780
785	790	795
Asp Gln Gly Gln Gly Leu	Arg Gln Pro Tyr Asn Ala Thr Asn Pro Gly	800
	805	810
Val Arg Pro Ser Asn Arg	Asp Gly Pro Cys Glu Arg Cys Gly Ile Val	815
	820	825
His Thr Ala Gln Ile Pro	Asp Thr Cys Leu Glu Val Thr Leu Lys Asn	830
	835	840
		845

Glu Thr Ser Asp Asp Glu Ala Leu Leu Leu Cys *
 850 855 859

<210> 1578
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1578
 Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
 1 5 10 15
 Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
 20 25 30
 Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
 35 40 45
 Cys Cys Val Val Met Ser Pro Leu Pro *
 50 55 57

<210> 1579
 <211> 572
 <212> PRT
 <213> Homo sapiens

<400> 1579
 Met Arg Arg Arg Ser Arg Met Leu Leu Cys Phe Ala Phe Leu Trp Val
 1 5 10 15
 Leu Gly Ile Ala Tyr Tyr Met Tyr Ser Gly Gly Gly Ser Ala Leu Ala
 20 25 30
 Gly Gly Ala Gly Gly Gly Ala Gly Arg Lys Glu Asp Trp Asn Glu Ile
 35 40 45
 Asp Pro Ile Lys Lys Lys Asp Leu His His Ser Asn Gly Glu Glu Lys
 50 55 60
 Ala Gln Ser Met Glu Thr Leu Pro Pro Gly Lys Val Arg Trp Pro Asp
 65 70 75 80
 Phe Asn Gln Glu Ala Tyr Val Gly Gly Thr Met Val Arg Ser Gly Gln
 85 90 95
 Asp Pro Tyr Ala Arg Asn Lys Phe Asn Gln Val Glu Ser Asp Lys Leu
 100 105 110
 Arg Met Asp Arg Ala Ile Pro Asp Thr Arg His Asp Gln Cys Gln Arg
 115 120 125
 Lys Gln Trp Arg Val Asp Leu Pro Ala Thr Ser Val Val Ile Thr Phe
 130 135 140
 His Asn Glu Ala Arg Ser Ala Leu Leu Arg Thr Val Val Ser Val Leu
 145 150 155 160
 Lys Lys Ser Pro Pro His Leu Ile Lys Glu Ile Ile Leu Val Asp Asp
 165 170 175
 Tyr Ser Asn Asp Pro Glu Asp Gly Ala Leu Leu Gly Lys Ile Glu Lys
 180 185 190
 Val Arg Val Leu Arg Asn Asp Arg Glu Gly Leu Met Arg Ser Arg
 195 200 205
 Val Arg Gly Ala Asp Ala Ala Gln Ala Lys Val Leu Thr Phe Leu Asp
 210 215 220
 Ser His Cys Glu Cys Asn Glu His Trp Leu Glu Pro Leu Leu Glu Arg

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225          230          235          240
Val Ala Glu Asp Arg Thr Arg Val Val Ser Pro Ile Ile Asp Val Ile
          245          250          255
Asn Met Asp Asn Phe Gln Tyr Val Gly Ala Ser Ala Asp Leu Lys Gly
          260          265          270
Gly Phe Asp Trp Asn Leu Val Phe Lys Trp Asp Tyr Met Thr Pro Glu
          275          280          285
Gln Arg Arg Ser Arg Gln Gly Asn Pro Val Ala Pro Ile Lys Thr Pro
          290          295          300
Met Ile Ala Gly Gly Leu Phe Val Met Asp Lys Phe Tyr Phe Glu Glu
305          310          315          320
Leu Gly Lys Tyr Asp Met Met Met Asp Val Trp Gly Gly Glu Asn Leu
          325          330          335
Glu Ile Ser Phe Arg Val Trp Gln Cys Gly Gly Ser Leu Glu Ile Ile
          340          345          350
Pro Cys Ser Arg Val Gly His Val Phe Arg Lys Gln His Pro Tyr Thr
          355          360          365
Phe Pro Gly Gly Ser Gly Thr Val Phe Ala Arg Asn Thr Arg Arg Ala
          370          375          380
Ala Glu Val Trp Met Asp Glu Tyr Lys Asn Phe Tyr Tyr Ala Ala Val
385          390          395          400
Pro Ser Ala Arg Asn Val Pro Tyr Gly Asn Ile Gln Ser Arg Leu Glu
          405          410          415
Leu Arg Lys Lys Leu Ser Cys Lys Pro Phe Lys Trp Tyr Leu Glu Asn
          420          425          430
Val Tyr Pro Glu Leu Arg Val Pro Asp His Gln Asp Ile Ala Phe Gly
          435          440          445
Ala Leu Gln Gln Gly Thr Asn Cys Leu Asp Thr Leu Gly His Phe Ala
          450          455          460
Asp Gly Val Val Gly Val Tyr Glu Cys His Asn Ala Gly Gly Asn Gln
465          470          475          480
Glu Trp Ala Leu Thr Lys Glu Lys Ser Val Lys His Met Asp Leu Cys
          485          490          495
Leu Thr Val Val Asp Arg Ala Pro Gly Ser Leu Ile Lys Leu Gln Gly
          500          505          510
Cys Arg Glu Asn Asp Ser Arg Gln Lys Trp Glu Gln Ile Glu Gly Asn
          515          520          525
Ser Lys Leu Arg His Val Gly Ser Asn Leu Cys Leu Asp Ser Arg Thr
          530          535          540
Ala Lys Ser Gly Gly Leu Ser Val Glu Val Cys Gly Pro Ala Leu Ser
545          550          555          560
Gln Gln Trp Lys Phe Thr Leu Asn Leu Gln Gln *
          565          570          571

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<210> 1580
<211> 77
<212> PRT
<213> Homo sapiens

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<400> 1580
Met Glu Arg Pro Leu Cys Ser His Leu Cys Ser Cys Leu Ala Met Leu
 1          5          10          15
Ala Leu Leu Ser Pro Leu Ser Leu Ala Gln Tyr Asp Ser Trp Pro His
          20          25          30
Tyr Pro Glu Tyr Phe Gln Gln Pro Ala Pro Glu Tyr His Gln Pro Gln
          35          40          45

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Ala Pro Ala Asn Val Ala Lys Ile Gln Leu Arg Leu Ala Gly Gln Lys
 50 55 60
 Arg Lys His Ser Glu Gly Pro Gly Gly Gly Val Leu *
 65 70 75 76

<210> 1581
 <211> 494
 <212> PRT
 <213> Homo sapiens

<400> 1581
 Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu Leu Gly Met Leu
 1 5 10 15
 Val Ala Ser Cys Leu Gly Arg Leu Ser Trp Tyr Asp Pro Asp Phe Gln
 20 25 30
 Ala Arg Leu Thr Arg Ser Asn Ser Lys Cys Gln Gly Gln Leu Glu Val
 35 40 45
 Tyr Leu Lys Asp Gly Trp His Met Val Cys Ser Gln Ser Trp Gly Arg
 50 55 60
 Ser Ser Lys Gln Trp Glu Asp Pro Ser Gln Ala Ser Lys Val Cys Gln
 65 70 75 80
 Arg Leu Asn Cys Gly Val Pro Leu Ser Leu Gly Pro Phe Leu Val Thr
 85 90 95
 Tyr Thr Pro Gln Ser Ser Ile Ile Cys Tyr Gly Gln Leu Gly Ser Phe
 100 105 110
 Ser Asn Cys Ser His Ser Arg Asn Asp Met Cys His Ser Leu Gly Leu
 115 120 125
 Thr Cys Leu Glu Pro Gln Lys Thr Thr Pro Pro Thr Thr Arg Pro Pro
 130 135 140
 Pro Thr Thr Thr Pro Glu Pro Thr Ala Pro Pro Arg Leu Gln Leu Val
 145 150 155 160
 Ala Gln Ser Gly Gly Gln His Cys Ala Gly Val Val Glu Phe Tyr Ser
 165 170 175
 Gly Ser Leu Gly Gly Thr Ile Ser Tyr Glu Ala Gln Asp Lys Thr Gln
 180 185 190
 Asp Leu Glu Asn Phe Leu Cys Asn Asn Leu Gln Cys Gly Ser Phe Leu
 195 200 205
 Lys His Leu Pro Glu Thr Glu Ala Gly Arg Ala Gln Asp Pro Gly Glu
 210 215 220
 Pro Arg Glu His Gln Pro Leu Pro Ile Gln Trp Lys Ile Gln Asn Ser
 225 230 235 240
 Ser Cys Thr Ser Leu Glu His Cys Phe Arg Lys Ile Lys Pro Gln Lys
 245 250 255
 Ser Gly Arg Val Leu Ala Leu Leu Cys Ser Gly Phe Gln Pro Lys Val
 260 265 270
 Gln Ser Arg Leu Val Gly Gly Ser Ser Ile Cys Glu Gly Thr Val Glu
 275 280 285
 Val Arg Gln Gly Ala Gln Trp Ala Ala Leu Cys Asp Ser Ser Ser Ala
 290 295 300
 Arg Ser Ser Leu Arg Trp Glu Glu Val Cys Arg Glu Gln Gln Cys Gly
 305 310 315 320
 Ser Val Asn Ser Tyr Arg Val Leu Asp Ala Gly Asp Pro Thr Ser Arg
 325 330 335
 Gly Leu Phe Cys Pro His Gln Lys Leu Ser Gln Cys His Glu Leu Trp
 340 345 350
 Glu Arg Asn Ser Tyr Cys Lys Lys Val Phe Val Thr Cys Gln Asp Pro

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      355              360              365
Asn Pro Ala Gly Leu Ala Ala Gly Thr Val Ala Ser Ile Ile Leu Ala
  370              375              380
Leu Val Leu Leu Val Val Leu Leu Val Val Cys Gly Pro Leu Ala Tyr
  385              390              395              400
Lys Lys Leu Val Lys Lys Phe Arg Gln Lys Lys Gln Arg Gln Trp Ile
      405              410              415
Gly Pro Thr Gly Met Asn Gln Asn Met Ser Phe His Arg Asn His Thr
      420              425              430
Ala Thr Val Arg Ser His Ala Glu Asn Pro Thr Ala Ser His Val Asp
      435              440              445
Asn Glu Tyr Ser Gln Pro Pro Arg Asn Ser Arg Leu Ser Ala Tyr Pro
      450              455              460
Ala Leu Glu Gly Ala Leu His Arg Ser Ser Met Gln Pro Asp Asn Ser
  465              470              475              480
Ser Asp Ser Asp Tyr Asp Leu His Gly Ala Gln Arg Leu *
      485              490              493

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<210> 1582
 <211> 329
 <212> PRT
 <213> Homo sapiens

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      <400> 1582
Met Gln Gly Leu Cys Ile Ser Val Ala Val Phe Leu His Tyr Phe Leu
  1              5              10              15
Leu Val Ser Phe Thr Trp Met Gly Leu Glu Ala Phe His Met Tyr Leu
      20              25              30
Ala Leu Val Lys Val Phe Asn Thr Tyr Ile Arg Lys Tyr Ile Leu Lys
      35              40              45
Phe Cys Ile Val Gly Trp Gly Val Pro Ala Val Val Val Thr Ile Ile
  50              55              60
Leu Thr Ile Ser Pro Asp Asn Tyr Gly Leu Gly Ser Tyr Gly Lys Phe
  65              70              75              80
Pro Asn Gly Ser Pro Asp Asp Phe Cys Trp Ile Asn Asn Asn Ala Val
      85              90              95
Phe Tyr Ile Thr Val Val Gly Tyr Phe Cys Val Ile Phe Leu Leu Asn
      100              105              110
Val Ser Met Phe Ile Val Val Leu Val Gln Leu Cys Arg Ile Lys Lys
      115              120              125
Lys Lys Gln Leu Gly Ala Gln Arg Lys Thr Ser Ile Gln Asp Leu Arg
  130              135              140
Ser Ile Ala Gly Leu Thr Phe Leu Leu Gly Ile Thr Trp Gly Phe Ala
  145              150              155              160
Phe Phe Ala Trp Gly Pro Val Asn Val Thr Phe Met Tyr Leu Phe Ala
      165              170              175
Ile Phe Asn Thr Leu Gln Gly Phe Phe Ile Phe Ile Phe Tyr Cys Val
      180              185              190
Ala Lys Glu Asn Val Arg Lys Gln Trp Arg Arg Tyr Leu Cys Cys Gly
      195              200              205
Lys Leu Arg Leu Ala Glu Asn Ser Asp Trp Ser Lys Thr Ala Thr Asn
  210              215              220
Gly Leu Lys Lys Gln Thr Val Asn Gln Gly Val Ser Ser Ser Ser Asn
  225              230              235              240
Ser Leu Gln Ser Ser Ser Asn Ser Thr Asn Ser Thr Thr Leu Leu Val
      245              250              255

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Asn Asn Asp Cys Ser Val His Ala Ser Gly Asn Gly Asn Ala Ser Thr
 260 265 270
 Glu Arg Asn Gly Val Ser Phe Ser Val Gln Asn Gly Asp Val Cys Leu
 275 280 285
 His Asp Phe Thr Gly Lys Gln His Met Phe Asn Glu Lys Glu Asp Ser
 290 295 300
 Cys Asn Gly Lys Gly Arg Met Ala Leu Arg Arg Thr Ser Lys Arg Gly
 305 310 315 320
 Ser Leu His Phe Ile Glu Gln Met *
 325 328

<210> 1583
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1583
 Met Gly Met Gly Arg Leu Leu Pro Met Ala Trp Val Leu Ala Gly Ile
 1 5 10 15
 Pro Thr Gly Ala Gln Gln Ser Trp Arg Arg Pro Trp Ser Gly Ser Ala
 20 25 30
 Pro Arg Cys Ala Ser Cys Gly Ser Ala Trp Arg Cys Cys Ala Val Arg
 35 40 45 48
 *

<210> 1584
 <211> 671
 <212> PRT
 <213> Homo sapiens

<400> 1584
 Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu
 1 5 10 15
 Phe Arg Ala Leu Ser Asp Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
 20 25 30
 Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
 35 40 45
 Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp
 50 55 60
 Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro
 65 70 75 80
 Leu Ile Asp Lys Gly Leu Ala Gln Ser Ser Leu Ala Leu Leu Met Asp
 85 90 95
 Asn Pro Gly Glu Glu Asn Ala Ala Ser Glu Asp Arg Trp Ser Ser Arg
 100 105 110
 Gln Leu Ser Asp Leu Arg Ala Ala Glu Asn Leu Asp Glu Pro Phe Pro
 115 120 125
 Glu Met Leu Gly Glu Glu Pro Leu Leu Glu Val Glu Gly Val Glu Gly
 130 135 140
 Ser Met Trp Ala Ala Ile Pro Met Gln Ser Glu Pro Gln Tyr Ala Asp
 145 150 155 160
 Cys Ala Ala Leu Pro Val Gly Ala Leu Ala Thr Glu Gln Trp Glu Glu

				165					170					175			
Asp	Pro	Ala	Val	Leu	Ala	Trp	Ser	Ile	Ala	Pro	Glu	Pro	Val	Pro	Gln		
			180					185					190				
Glu	Glu	Ala	Ser	Ile	Trp	Pro	Phe	Glu	Gly	Leu	Gly	Gln	Leu	Gln	Pro		
		195					200					205					
Pro	Ala	Val	Glu	Ile	Pro	Tyr	His	Glu	Ile	Leu	Trp	Arg	Glu	Trp	Glu		
	210					215					220						
Asp	Phe	Ser	Thr	Gln	Pro	Asp	Ala	Gln	Gly	Leu	Lys	Ala	Gly	Asp	Gly		
225					230					235					240		
Pro	Gln	Phe	Gln	Phe	Thr	Leu	Met	Ser	Tyr	Asn	Ile	Leu	Ala	Gln	Asp		
				245				250						255			
Leu	Met	Gln	Gln	Ser	Ser	Glu	Leu	Tyr	Leu	His	Cys	His	Pro	Asp	Ile		
			260					265						270			
Leu	Asn	Trp	Asn	Tyr	Arg	Phe	Val	Asn	Leu	Met	Gln	Glu	Phe	Gln	His		
	275						280					285					
Trp	Asp	Pro	Asp	Ile	Leu	Cys	Leu	Gln	Glu	Val	Gln	Glu	Asp	His	Tyr		
	290					295					300						
Trp	Glu	Gln	Leu	Glu	Pro	Ser	Leu	Arg	Met	Met	Gly	Phe	Thr	Cys	Phe		
305					310					315					320		
Tyr	Lys	Arg	Arg	Thr	Gly	Cys	Lys	Thr	Asp	Gly	Cys	Ala	Val	Cys	Tyr		
				325				330						335			
Lys	Pro	Thr	Arg	Phe	Arg	Leu	Leu	Cys	Ala	Ser	Pro	Val	Glu	Tyr	Phe		
			340					345						350			
Arg	Pro	Gly	Leu	Glu	Leu	Leu	Asn	Arg	Asp	Asn	Val	Gly	Leu	Val	Leu		
	355						360					365					
Leu	Leu	Gln	Pro	Leu	Val	Pro	Glu	Gly	Leu	Gly	Gln	Val	Ser	Val	Ala		
	370					375					380						
Pro	Leu	Cys	Val	Ala	Asn	Thr	His	Ile	Leu	Tyr	Asn	Pro	Arg	Arg	Gly		
385					390					395					400		
Asp	Val	Lys	Leu	Ala	Gln	Met	Ala	Ile	Leu	Leu	Ala	Glu	Val	Asp	Lys		
				405				410						415			
Val	Ala	Arg	Leu	Ser	Asp	Gly	Ser	His	Cys	Pro	Ile	Ile	Leu	Cys	Gly		
			420					425						430			
Asp	Leu	Asn	Ser	Val	Pro	Asp	Ser	Pro	Leu	Tyr	Asn	Phe	Ile	Arg	Asp		
	435						440					445					
Gly	Glu	Leu	Gln	Tyr	His	Gly	Met	Pro	Ala	Trp	Lys	Val	Ser	Gly	Gln		
	450					455					460						
Glu	Asp	Phe	Ser	His	Gln	Leu	Tyr	Gln	Arg	Lys	Leu	Gln	Ala	Pro	Leu		
465					470					475					480		
Trp	Pro	Ser	Ser	Leu	Gly	Ile	Thr	Asp	Cys	Cys	Gln	Tyr	Val	Thr	Ser		
				485				490						495			
Cys	His	Pro	Lys	Arg	Ser	Glu	Arg	Arg	Lys	Tyr	Gly	Arg	Asp	Phe	Leu		
		500						505						510			
Leu	Arg	Phe	Arg	Phe	Cys	Ser	Ile	Ala	Cys	Gln	Arg	Pro	Val	Gly	Leu		
	515						520					525					
Val	Leu	Met	Glu	Gly	Val	Thr	Asp	Thr	Lys	Pro	Glu	Arg	Pro	Ala	Gly		
	530					535					540						
Trp	Ala	Glu	Ser	Val	Leu	Glu	Glu	Asp	Ala	Ser	Glu	Leu	Glu	Pro	Ala		
545					550					555					560		
Phe	Ser	Arg	Thr	Val	Gly	Thr	Ile	Gln	His	Cys	Leu	His	Leu	Thr	Ser		
				565				570						575			
Val	Tyr	Thr	His	Phe	Leu	Pro	Gln	Arg	Gly	Arg	Pro	Glu	Val	Thr	Thr		
			580					585						590			
Met	Pro	Leu	Gly	Leu	Gly	Met	Thr	Val	Asp	Tyr	Ile	Phe	Phe	Ser	Ala		
	595						600					605					
Glu	Ser	Cys	Glu	Asn	Gly	Asn	Arg	Thr	Asp	His	Arg	Leu	Tyr	Arg	Asp		
	610					615					620						
Gly	Thr	Leu	Lys	Leu	Leu	Gly	Arg	Leu	Ser	Leu	Leu	Ser	Glu	Glu	Ile		
625					630					635					640		

Leu Trp Ala Ala Asn Gly Leu Pro Asn Pro Phe Cys Ser Ser Asp His
 645 650 655
 Leu Cys Leu Leu Ala Ser Leu Gly Met Glu Val Thr Ala Pro *
 660 665 670

<210> 1585
 <211> 318
 <212> PRT
 <213> Homo sapiens

<400> 1585
 Met Met Cys Leu Lys Ile Leu Arg Ile Ser Leu Ala Ile Leu Ala Gly
 1 5 10 15
 Trp Ala Leu Cys Ser Ala Asn Ser Glu Leu Gly Trp Thr Arg Lys Lys
 20 25 30
 Ser Leu Val Glu Arg Glu His Leu Asn Gln Val Leu Leu Glu Gly Glu
 35 40 45
 Arg Cys Trp Leu Gly Ala Lys Val Arg Arg Pro Arg Ala Ser Pro Gln
 50 55 60
 His His Leu Phe Gly Val Tyr Pro Ser Arg Ala Gly Asn Tyr Leu Arg
 65 70 75 80
 Pro Tyr Pro Val Gly Glu Gln Glu Ile His His Thr Gly Arg Ser Lys
 85 90 95
 Pro Asp Thr Glu Gly Asn Ala Val Ser Leu Val Pro Pro Asp Leu Thr
 100 105 110
 Glu Asn Pro Ala Gly Leu Arg Gly Ala Val Glu Glu Pro Ala Ala Pro
 115 120 125
 Trp Val Gly Asp Ser Pro Ile Gly Gln Ser Glu Leu Leu Gly Asp Asp
 130 135 140
 Asp Ala Tyr Leu Gly Asn Gln Arg Ser Lys Glu Ser Leu Gly Glu Ala
 145 150 155 160
 Gly Ile Gln Lys Gly Ser Ala Met Ala Ala Thr Thr Thr Thr Ala Ile
 165 170 175
 Phe Thr Thr Leu Asn Glu Pro Lys Pro Glu Thr Gln Arg Arg Gly Trp
 180 185 190
 Ala Lys Ser Arg Gln Arg Arg Gln Val Trp Lys Arg Arg Ala Glu Asp
 195 200 205
 Gly Gln Gly Asp Ser Gly Ile Ser Ser His Phe Gln Pro Trp Pro Lys
 210 215 220
 His Ser Leu Lys His Arg Val Lys Lys Ser Pro Pro Glu Glu Ser Asn
 225 230 235 240
 Gln Asn Gly Gly Glu Gly Ser Tyr Arg Glu Ala Glu Thr Phe Asn Ser
 245 250 255
 Gln Val Gly Leu Pro Ile Leu Tyr Phe Ser Gly Arg Arg Glu Arg Leu
 260 265 270
 Leu Leu Arg Pro Glu Val Leu Ala Glu Ile Pro Arg Glu Ala Phe Thr
 275 280 285
 Val Glu Ala Trp Val Lys Pro Glu Gly Gly Gln Asn Asn Pro Ala Ile
 290 295 300
 Ile Ala Gly Asn Thr Leu Leu Leu Gly Phe Leu Lys Ser *
 305 310 315 317

<210> 1586
 <211> 80

<212> PRT

<213> Homo sapiens

<400> 1586

Met	Ile	Ala	Leu	Thr	Gln	Leu	Leu	Thr	Phe	Ile	Leu	Ser	Cys	Asn	Ser
1				5					10					15	
Ser	Leu	Leu	His	Ile	Phe	Pro	Phe	Cys	Glu	Gln	Val	Leu	Val	Glu	Asn
			20					25					30		
Gly	Thr	Lys	Ala	Gly	His	Ser	Leu	Leu	Met	Asp	Ala	Arg	Asp	Leu	Val
		35					40					45			
Leu	Lys	Gly	Lys	Glu	Lys	Ser	Pro	Leu	Asp	Pro	Arg	Pro	Gly	Phe	Val
		50				55					60				
Phe	Ala	Pro	Val	Ser	Ile	Thr	Ser	Ala	Cys	Pro	Thr	Thr	Arg	Ile	*
65					70					75				79	

<210> 1587

<211> 316

<212> PRT

<213> Homo sapiens

<400> 1587

Met	Phe	Phe	Gly	Ser	Ala	Ala	Leu	Gly	Thr	Leu	Thr	Gly	Leu	Ile	Ser
1				5					10					15	
Ala	Leu	Val	Leu	Lys	His	Ile	Asp	Leu	Arg	Lys	Thr	Pro	Ser	Leu	Glu
			20					25					30		
Phe	Gly	Met	Met	Ile	Ile	Phe	Ala	Tyr	Leu	Pro	Tyr	Gly	Leu	Ala	Glu
		35					40					45			
Gly	Ile	Ser	Leu	Ser	Gly	Ile	Met	Ala	Ile	Leu	Phe	Ser	Gly	Ile	Val
	50					55				60					
Met	Ser	His	Tyr	Thr	His	His	Asn	Leu	Ser	Pro	Val	Thr	Gln	Ile	Leu
65					70					75				80	
Met	Gln	Gln	Thr	Leu	Arg	Thr	Val	Ala	Phe	Leu	Cys	Glu	Thr	Cys	Val
			85						90					95	
Phe	Ala	Phe	Leu	Gly	Leu	Ser	Ile	Phe	Ser	Phe	Pro	His	Lys	Phe	Glu
			100					105					110		
Ile	Ser	Phe	Val	Ile	Trp	Cys	Ile	Val	Leu	Val	Leu	Phe	Gly	Arg	Ala
		115					120					125			
Val	Asn	Ile	Phe	Pro	Leu	Ser	Tyr	Leu	Leu	Asn	Phe	Phe	Arg	Asp	His
	130					135					140				
Lys	Ile	Thr	Pro	Lys	Met	Met	Phe	Ile	Met	Trp	Phe	Ser	Gly	Leu	Arg
145					150					155				160	
Gly	Ala	Ile	Pro	Tyr	Ala	Leu	Ser	Leu	His	Leu	Asp	Leu	Glu	Pro	Met
			165						170					175	
Glu	Lys	Arg	Gln	Leu	Ile	Gly	Thr	Thr	Thr	Ile	Val	Ile	Val	Leu	Phe
			180					185					190		
Thr	Ile	Leu	Leu	Leu	Gly	Gly	Ser	Thr	Met	Pro	Leu	Ile	Arg	Leu	Met
		195					200					205			
Asp	Ile	Glu	Asp	Ala	Lys	Ala	His	Arg	Arg	Asn	Lys	Lys	Asp	Val	Asn
	210					215					220				
Leu	Ser	Lys	Thr	Glu	Lys	Met	Gly	Asn	Thr	Val	Glu	Ser	Glu	His	Leu
225					230					235				240	
Ser	Glu	Leu	Thr	Glu	Glu	Glu	Tyr	Glu	Ala	His	Tyr	Ile	Arg	Arg	Gln
			245						250					255	
Asp	Leu	Lys	Gly	Phe	Val	Trp	Leu	Asp	Ala	Lys	Tyr	Leu	Asn	Pro	Phe
			260					265					270		

Phe Thr Arg Arg Leu Thr Gln Glu Asp Leu His His Gly Arg Ile Gln
 275 280 285
 Met Lys Thr Leu Thr Asn Lys Trp Tyr Glu Glu Val Arg Gln Gly Pro
 290 295 300
 Ser Gly Ser Glu Asp Asp Glu Gln Glu Leu Leu *
 305 310 315

<210> 1588
 <211> 53
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(53)
 <223> Xaa = any amino acid or nothing

<400> 1588
 Met Cys Ser Leu Met Phe Gly Ser Ser Val Phe Val Cys Phe Pro Pro
 1 5 10 15
 Cys Val Pro Leu Pro Ala Pro His Ser Gly Gly Pro Pro His Arg Ala
 20 25 30
 Gly Arg Ser Val Phe Ser Ala Met Lys Leu Gly Lys Xaa Arg Ser His
 35 40 45
 Lys Glu Glu Pro Gln
 50 53

<210> 1589
 <211> 437
 <212> PRT
 <213> Homo sapiens

<400> 1589
 Met Leu Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys
 1 5 10 15
 Ser Gln Ser Leu Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg
 20 25 30
 Ser Asp Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile
 35 40 45
 Ser Gln Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Glu
 50 55 60
 Val Glu Asp Asp Tyr Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp
 65 70 75 80
 Gln Ala Leu Asp Pro Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser
 85 90 95
 Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile
 100 105 110
 Ser His Arg Arg Leu Thr His Arg Met Lys Glu Ala Gly Val Asp His
 115 120 125
 Arg Gln Trp Arg Gly Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val
 130 135 140
 Val Tyr Pro Ser Pro Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe
 145 150 155 160
 Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser

				165					170					175			
Val	Lys	Cys	Glu	Gly	His	Cys	Pro	Cys	Pro	Ser	Asp	Lys	Pro	Thr	Ser		
			180					185					190				
Thr	Ser	Arg	Asn	Val	Lys	Arg	Ala	Cys	Ser	Asp	Leu	Glu	Phe	Arg	Glu		
		195					200					205					
Val	Ala	Asn	Arg	Leu	Arg	Asp	Trp	Phe	Lys	Ala	Leu	His	Glu	Ser	Gly		
	210					215					220						
Ser	Gln	Asn	Lys	Lys	Thr	Lys	Thr	Leu	Leu	Arg	Pro	Glu	Arg	Ser	Arg		
	225				230					235					240		
Phe	Asp	Thr	Ser	Ile	Leu	Pro	Ile	Cys	Lys	Asp	Ser	Leu	Gly	Trp	Met		
				245					250						255		
Phe	Asn	Arg	Leu	Asp	Thr	Asn	Tyr	Asp	Leu	Leu	Leu	Asp	Gln	Ser	Glu		
			260					265					270				
Leu	Arg	Ser	Ile	Tyr	Leu	Asp	Lys	Asn	Glu	Gln	Cys	Thr	Lys	Ala	Phe		
	275						280					285					
Phe	Asn	Ser	Cys	Asp	Thr	Tyr	Lys	Asp	Ser	Leu	Ile	Ser	Asn	Asn	Glu		
	290					295				300							
Trp	Cys	Tyr	Cys	Phe	Gln	Arg	Gln	Gln	Asp	Pro	Pro	Cys	Gln	Thr	Glu		
	305				310					315					320		
Leu	Ser	Asn	Ile	Gln	Lys	Arg	Gln	Gly	Val	Lys	Lys	Leu	Leu	Gly	Gln		
			325					330						335			
Tyr	Ile	Pro	Leu	Cys	Asp	Glu	Asp	Gly	Tyr	Tyr	Lys	Pro	Thr	Gln	Cys		
			340					345					350				
His	Gly	Ser	Val	Gly	Gln	Cys	Trp	Cys	Val	Asp	Arg	Tyr	Gly	Asn	Glu		
		355					360					365					
Val	Met	Gly	Ser	Arg	Ile	Asn	Gly	Val	Ala	Asp	Cys	Ala	Ile	Asp	Phe		
	370					375					380						
Glu	Ile	Ser	Gly	Asp	Phe	Ala	Ser	Gly	Asp	Phe	His	Glu	Trp	Thr	Asp		
	385				390					395					400		
Asp	Glu	Asp	Asp	Glu	Asp	Asp	Ile	Met	Asn	Asp	Glu	Asp	Glu	Ile	Glu		
				405					410					415			
Asp	Asp	Asp	Glu	Asp	Glu	Gly	Asp	Asp	Asp	Asp	Gly	Gly	Asp	Asp	His		
			420					425					430				
Asp	Val	Tyr	Ile	*													
			435	436													

<210> 1590
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1590

Met	Phe	Gln	Ile	Tyr	Phe	Ser	Phe	Cys	Gln	Leu	Cys	Phe	Ile	Trp	Ser		
1				5				10					15				
Cys	Phe	Phe	Asn	Ser	Arg	Glu	Thr	Phe	Asn	Glu	Ile	Tyr	Lys	Phe	Phe		
			20					25				30					
Leu	Lys	Ser	Val	Met	Val	Arg	Lys	Ile	Phe	Glu	Cys	His	Lys	Met	Ser		
			35				40					45			48		

*

<210> 1591
 <211> 73
 <212> PRT

<213> Homo sapiens

<400> 1591

```

Met Ser Leu Asn Val Leu Leu Ala Leu Phe Cys Leu Leu Leu Ala Lys
 1          5          10          15
Glu Arg Thr Thr Lys Arg Cys Ile Ser Cys Leu Pro Phe Ser Thr
          20          25          30
Phe Phe Ser Phe Gly Pro Leu Gln Lys Val Thr Asp Pro Ser Ser Trp
          35          40          45
Ala Leu Ala Phe Ser Val Cys Gln Ala Cys Thr Arg Ser Glu Leu Pro
          50          55          60
Gly Ala Leu Arg Thr Arg Gly Ser Thr
 65          70          73

```

<210> 1592

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1592

```

Met Tyr Phe Ser Leu Ile Phe Leu Val Phe Phe Phe Leu Ser Leu Pro
 1          5          10          15
Leu Ser Ser Ser Ser Ser Glu Pro Thr Ser Ser Ile Leu Gly Phe Ser
          20          25          30
Ser Ser Ser Leu Ser Ser Ser Ser Phe Ser Pro Phe Ser Ser Ser Ala
          35          40          45
Ser Ser Ser Leu Ile Ser Phe Ser Arg Ser Phe Ser Lys *
          50          55          60 61

```

<210> 1593

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1593

```

Met Arg Ala Met Leu Gly Thr Cys Ala Leu Gly Gln Phe Phe Leu Ile
 1          5          10          15
Met Gly Asn Thr Gln Arg Cys Asp Asp Phe Pro Thr Glu Ser Pro Pro
          20          25          30
Ala Lys Thr Asn Val Ser Arg Ala Gly Leu Ser Pro Pro Cys Glu Ala
          35          40          45
Leu His Gly Val Glu Ser Arg Gly Ser Cys Ser His Gly Lys Leu Gln
          50          55          60
Ser Pro Pro Gly Arg Asp Trp Pro Gln Gly Asp Pro Gln Asp Arg Pro
          65          70          75          80
Lys Arg Arg Trp Gln Arg Pro Gly Pro Ala Gly Arg Gly Ala Pro Asp
          85          90          95
Pro Thr Pro Lys Gly Gln Gly Ala Ala Val Pro Pro Arg Ser Ala Ser
          100          105          110
Met Phe Leu Ile His Lys Gln Met Trp Ala Tyr Gly Phe Gly Asp *
          115          120          125          127

```

<210> 1594
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1594
 Met Ile Trp Ala Leu Ser Ser Ser Leu Ile Pro Phe Leu Ile Ala Leu
 1 5 10 15
 Cys Phe Val His Ser Ala Asn Ser His Leu Gln Val Leu Val Ile Cys
 20 25 30
 Ser Ser Leu Phe Leu Glu Pro Pro Pro His Asn Phe Met *
 35 40 45

<210> 1595
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 1595
 Met Trp Glu Glu Leu Leu Arg Gly Leu Thr Ala Pro Tyr Trp Leu Ser
 1 5 10 15
 Ser Trp Leu Cys Phe Ser Trp Arg Ala Ala Thr Val Ala Val Ala Val
 20 25 30
 Ala Val Ala Val Ala Ala Ala Ala Thr Ala Ala Ala Ala Ala Ala
 35 40 45
 Cys Val Lys Ser Val Glu Gly Leu Ala Ala Cys Glu Gly Arg Pro Arg
 50 55 60
 Pro Pro Gly Pro Pro Ala Tyr Leu Gln Glu Thr Gln Asp Cys His Ala
 65 70 75 80
 Leu Cys Val Gly Ser *
 85

<210> 1596
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1596
 Met Val Leu Ser Trp Leu Thr Leu Ile Glu Ala Leu Ala Asp Val Met
 1 5 10 15
 Thr Thr Asp Gly Asn Met Leu Gln Leu Phe Cys Val Glu Arg Thr Asn
 20 25 30
 Leu Leu Val Asn Gln Ile Arg Met Thr Leu Tyr Ala Gln Tyr Arg His
 35 40 45
 Val Arg Pro Phe Arg Thr Ile Met Lys Pro Ile Leu Thr Arg Glu Val
 50 55 60
 Gln Thr Lys Asp *
 65 68

<210> 1597
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1597
 Met Phe Leu Leu Phe Ser Arg Ile Ser Asn Leu Met Phe Val Asn His
 1 5 10 15
 Lys Leu Pro Met Leu Ile Thr Glu Asn Lys Gln Val Ser Lys Glu Glu
 20 25 30
 Asn Lys Ala Thr His Ser His Arg Ser Ser Phe Gln Ser Ser Thr Ile
 35 40 45
 Ser Ser Arg Leu Asn Leu Ile *
 50 55

<210> 1598
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1598
 Met His Glu Ser Pro Leu Ala Trp Ala Ser Val His Leu Ser Ser Leu
 1 5 10 15
 Pro Leu Leu Cys Thr Ala Cys Ser Ser Pro Leu Met Gly Asn Ser Val
 20 25 30
 Leu Cys Arg Ala Pro Ala Asp Met Gly Leu Ala Trp Met Leu Leu Leu
 35 40 45
 Ser Glu Pro Arg Arg Val Val Pro Gly Ile Ala Ala Gln Val Leu Thr
 50 55 60
 Ala Leu Arg Arg Arg Leu Leu Ser Gly Thr Leu Pro Ser Phe Pro Arg
 65 70 75 80
 Arg Lys Asn Pro Leu His Glu His Leu Leu Ala Phe Ile Val Arg Leu
 85 90 95 96
 *

<210> 1599
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1599
 Met Thr Val Ser Gly Thr Val Val Leu Val Ala Gly Thr Leu Cys Phe
 1 5 10 15
 Ala Trp Trp Ser Glu Gly Asp Ala Thr Ala Gln Pro Gly Gln Leu Ala
 20 25 30
 Pro Pro Thr Glu Tyr Pro Val Pro Glu Gly Pro Ser Pro Leu Leu Arg
 35 40 45
 Ser Val Ser Phe Val Cys Cys Gly Ala Gly Gly Leu Leu Leu Leu Ile
 50 55 60
 Gly Leu Leu Trp Ser Val Lys Ala Ser Ile Pro Gly Pro Pro Arg Trp

```

      65              70              75              80
Asp Pro Tyr His Leu Ser Arg Asp Leu Tyr Tyr Leu Thr Val Glu Ser
      85              90              95
Ser Glu Lys Glu Ser Cys Arg Thr Pro Lys Val Val Asp Ile Pro Asp
      100              105              110              112
*
```

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<210> 1600
<211> 103
<212> PRT
<213> Homo sapiens
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      <400> 1600
Met Gly Ala Trp Ala Trp Val Pro Thr Pro Ser Leu Cys Leu Cys His
  1              5              10              15
Ser Thr Cys Leu Glu Phe Leu Leu Phe Leu Tyr Ile Leu Phe Tyr Cys
      20              25              30
Ile Phe Glu Thr Val Ser Leu Ser Pro Arg Leu Glu Arg Ser Gly Ala
      35              40              45
Ile Leu Ala Arg Cys Asn Leu Cys Leu Arg Gly Ser Ser Asp Ser Arg
      50              55              60
Ala Leu Ala Ser Arg Val Ala Glu Thr Thr Gly Met His His His Ala
  65              70              75              80
Trp Leu Ile Phe Ala Phe Leu Val Glu Thr Gly Phe His His Val Gly
      85              90              95
Gln Ala Gly Leu Asn Ser *
```

```

<210> 1601
<211> 84
<212> PRT
<213> Homo sapiens
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```

      <400> 1601
Met Val Ala Leu Leu Cys Arg Gln Ile Ile Ser Ala Ala Phe Ser Gly
  1              5              10              15
Glu Gly Thr Pro Leu Cys Ser Trp Ser Ser Gly Pro Ile Leu Ser Ser
      20              25              30
Val Cys Leu Leu Cys Pro Leu Ala Val Leu Cys Pro Ala Lys Pro Glu
      35              40              45
Pro Arg Ala Phe Thr Asp Leu Arg Gly Glu Glu Val Cys Ala Asp Trp
      50              55              60
Phe Met Gly Gly His Gly Arg Val Glu Arg Gly Thr Met Ser Pro His
  65              70              75              80
Ser Gly Leu *
```

```

<210> 1602
<211> 91
<212> PRT
```

<213> Homo sapiens

<400> 1602

```

Met Lys Thr Leu Pro Val Leu Val Leu Ser Leu Thr Leu Leu Thr Val
 1          5          10          15
Phe Ser Glu Thr Ser Pro Ile Leu Thr Glu Lys Gln Ala Lys Gln Leu
          20          25          30
Leu Arg Ser Arg Arg Gln Asp Arg Pro Ser Lys Pro Gly Phe Pro Asp
          35          40          45
Glu Pro Met Arg Glu Tyr Met His His Leu Leu Ala Leu Glu His Arg
          50          55          60
Ala Glu Glu Gln Phe Leu Glu His Trp Leu Asn Pro His Cys Lys Pro
          65          70          75          80
His Cys Asp Arg Asn Arg Ile His Pro Val *
          85          90

```

<210> 1603

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1603

```

Met Lys Arg Asp Val Leu Ile Thr Glu Thr Phe Cys Ile Leu Phe Trp
 1          5          10          15
Leu Cys Ala Phe Ser Ser Met Asn Asp Tyr Val Phe Lys Pro His Val
          20          25          30
Leu Tyr Ile Asp Cys Pro Leu Lys Arg Leu Asp Ser Ser Val Cys Gln
          35          40          45
His Ile Gly Thr Glu Tyr Asn Tyr Thr Leu Ile Ile Ser Gln Val Phe
          50          55          60
Ile Leu Glu Val *
          65          68

```

<210> 1604

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1604

```

Met Leu Gln Pro Met Phe Phe Thr Leu Ser Thr His Leu Val Gly Leu
 1          5          10          15
Ser Gln Ile Ser Tyr Leu Ser Phe Pro Leu Ile Ser Leu His Pro Ala
          20          25          30
Gln Val Val Lys Arg Gln Ser Ser Leu Pro Arg Leu Met Gln Ser Ser
          35          40          45
Lys Glu Ser Lys Ala Val Leu Val Glu Ile Ile Leu Arg Ala Arg Lys
          50          55          60
Val Val Lys Tyr Ile Ser Lys Gly Phe Leu Arg Ala Val Cys Ala Glu
          65          70          75          80
Met Ile *
          82

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<210> 1605
 <211> 110
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(110)
 <223> Xaa = any amino acid or nothing

<400> 1605
 Met Ser Thr Ile Ile Phe Gln Trp Pro Phe Met Leu Val Ser Leu His
 1 5 10 15
 Arg Cys Arg Lys Leu Pro Arg Ala Leu Lys Asp Trp Gln Ala Phe Leu
 20 25 30
 Asp Leu Lys Lys Ile Ile Asp Asp Phe Ser Glu Cys Cys Pro Leu Leu
 35 40 45
 Glu Tyr Met Gly Ser Lys Ala Met Met Glu Arg His Xaa Glu Arg Ile
 50 55 60
 Thr Thr Leu Thr Gly His Ser Leu Asp Val Gly Asn Glu Ser Phe Lys
 65 70 75 80
 Leu Arg Asn Ile Met Glu Ala Pro Leu Leu Xaa Tyr Lys Glu Glu Ile
 85 90 95
 Glu Val Glu Tyr Asp Val Met Glu Asp Cys Lys Val Ser Trp
 100 105 110

<210> 1606
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1606
 Met Thr Ala Gly Thr Val Thr Met Leu Leu Trp His Ala Ser Asn Trp
 1 5 10 15
 Asp Val Gln Leu Pro Ser Gln Pro Leu Val Glu Leu Thr Pro Val Arg
 20 25 30
 Asp Leu Asp Thr Ser Gly Leu Thr Ala Phe Leu Ala Arg Asp Met Asn
 35 40 45
 Leu Leu Ser Gly Asn Val Asn Thr Met Asn Gly Glu Ser Ile Ile Ala
 50 55 60
 Ile Thr Met Lys Met Leu Ala *
 65 70 71

<210> 1607
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1607
 Met Phe Thr Arg Phe Ile Gly Leu Phe Leu Lys Phe Ile Leu Met Phe
 1 5 10 15

Phe Leu Leu Leu Ser Phe Ile Ser Tyr Phe Cys Leu Phe Pro Cys Ser
 20 25 30
 Asn Leu Pro Lys Val Ile Ala Ile Phe Asn Ile Val Leu Ile Leu Ser
 35 40 45
 Ile Val Phe Arg Glu Ile Thr Asp Thr Tyr *
 50 55 58

<210> 1608
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1608
 Met Leu Val Thr Asp Thr Glu Ala Phe Trp Gln Pro Gln Pro Trp Phe
 1 5 10 15
 Val Val Val Leu Thr Ala Thr Gly Ala Leu Leu Leu Ala Leu Gly
 20 25 30
 Trp Leu Leu Gly Arg Leu Leu Gln Gly Leu Ala Gln Leu Leu Gln Ala
 35 40 45
 Pro Ser Lys Pro Ala Gln Ala Leu Leu Leu Asn Ser Ile Gln Gly Thr
 50 55 60
 Glu Gly Ser Ile Glu Gly Phe Leu Glu Ala Pro Lys Met Glu Met Ser
 65 70 75 80
 Gln Ala Pro Ser Ser Val Met Ser Leu Gln His Phe Asp Gly Arg Thr
 85 90 95
 Gln Asp Ser Arg Thr Gly Arg Asp Tyr Leu Val Asn Thr His Thr Gly
 100 105 110
 Ala Arg Arg Trp Leu *
 115 117

<210> 1609
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1609
 Met Val Ile Gly Ser Leu His Thr Phe Thr Leu Leu Ala Ala Ser Ser
 1 5 10 15
 Leu Val Asp Thr Pro Lys Gln Ile Gln Leu Leu Met Gln Asn Leu Met
 20 25 30
 Asn Asp Pro Arg Lys Glu Val Lys Ile Leu Ala Ile Gln Asp Leu Lys
 35 40 45
 Leu Leu
 50

<210> 1610
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1610
 Met Val Leu Ile Leu Ser Pro Gly Leu Ser Ile Leu Phe Thr Lys Met
 1 5 10 15
 Ser Glu Thr Phe Ser Ser Ser Leu Leu Lys Leu Ser Ser Ser Ile Cys
 20 25 30
 Ile Phe Pro Leu Cys Ile Asn Met Ile Ile Cys Tyr Gln Lys Lys Ser
 35 40 45
 Gln *
 49

<210> 1611
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1611
 Met Ser Phe Gln Ala Phe Val Phe Leu Met Ile Gly Trp Leu His Pro
 1 5 10 15
 Asp Pro Arg Leu Met Thr Gln Arg Ser Cys Gly Pro His Pro Glu Val
 20 25 30
 Asp Ser Ala Gln Glu Asp His Phe Ser His Pro Tyr Asp Ile Pro Asn
 35 40 45
 Gln Ser Ala Pro Pro Leu Pro *
 50 55

<210> 1612
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1612
 Met Leu Thr Leu Ala Leu Leu Val Leu Arg Ile Cys Val Cys Glu Ala
 1 5 10 15
 Ala Ser Thr Phe Val Cys Pro Cys Leu Pro Trp Leu Ser Leu Leu Phe
 20 25 30
 Leu His Leu Leu Pro Arg Leu Phe Gln Val Gln Ile Trp Phe Leu Leu
 35 40 45
 Phe Leu Pro Phe Leu Leu Leu Leu Pro Ser Val Pro Glu Ile Phe Pro
 50 55 60
 Ala Pro Gln Ala Trp Gly Leu Gly Cys Ser *
 65 70 74

<210> 1613
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 1613
 Met Phe Thr Cys Leu Phe Leu Phe Ser Ala Val Leu Arg Ala Leu Phe
 1 5 10 15

```

Arg Lys Ser Asp Pro Lys Arg Phe Gln Asn Ile Phe Thr Thr Ile Phe
      20                      25                      30
Thr Leu Phe Thr Leu Leu Thr Leu Asp Asp Trp Ser Leu Ile Tyr Met
      35                      40                      45
Asp Ser Arg Ala Gln Gly Ala Trp Tyr Ile Ile Pro Ile Leu Ile Ile
      50                      55                      60
Tyr Ile Ile Ile Gln Tyr Phe Ile Phe Leu Asn Leu Val Ile Thr Val
      65                      70                      75                      80
Leu Val Asp Ser Phe Gln Thr Ala Leu Phe Lys Gly Leu Glu Lys Ala
      85                      90                      95
Lys Gln Glu Arg Ala Ala Arg Ile Gln Glu Lys Leu Leu Glu Asp Ser
      100                     105                     110
Leu Thr Glu Leu Arg Ala Ala Glu Pro Lys Glu Val Ala Ser Glu Gly
      115                     120                     125
Thr Met Leu Lys Arg Leu Ile Glu Lys Lys Phe Gly Thr Met Thr Glu
      130                     135                     140
Lys Gln Gln Glu Leu Leu Phe His Tyr Leu Gln Leu Val Ala Ser Val
      145                     150                     155                     160
Glu Gln Glu Gln Gln Lys Phe Arg Ser Gln Ala Ala Val Ile Asp Glu
      165                     170                     175
Ile Val Asp Thr Phe Glu Ala Gly Glu Glu Asp Phe Arg Asn *
      180                     185                     190 191

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<210> 1614
<211> 153
<212> PRT
<213> Homo sapiens

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```

<400> 1614
Met Asp Leu Val Gln Phe Phe Val Thr Phe Phe Ser Cys Phe Leu Ser
  1                      5                      10                      15
Leu Leu Leu Val Ala Ala Val Val Trp Lys Ile Lys Gln Thr Cys Trp
      20                      25                      30
Ala Ser Arg Arg Arg Glu Gln Leu Leu Arg Glu Arg Gln Met Ala
      35                      40                      45
Ser Arg Pro Phe Ala Ser Val Asp Val Ala Leu Glu Val Gly Ala Glu
      50                      55                      60
Gln Thr Glu Phe Leu Arg Gly Pro Leu Glu Gly Ala Pro Lys Pro Ile
      65                      70                      75                      80
Ala Ile Glu Pro Cys Ala Gly Asn Arg Ala Ala Val Leu Thr Val Phe
      85                      90                      95
Leu Cys Leu Pro Arg Gly Ser Ser Gly Ala Pro Pro Pro Gly Gln Ser
      100                     105                     110
Gly Leu Ala Ile Ala Ser Ala Leu Ile Asp Ile Ser Gln Gln Lys Ala
      115                     120                     125
Ser Asp Ser Lys Asp Lys Thr Ser Gly Val Arg Asn Arg Lys His Leu
      130                     135                     140
Ser Thr Arg Gln Gly Thr Cys Val *
      145                     150                     152

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<210> 1615
<211> 135
<212> PRT
<213> Homo sapiens

```

<400> 1615

```

Met His Trp Leu Arg Ala Ser Ala Gly Ser Leu Leu Met Val Pro Leu
 1          5          10          15
Met Thr Asp Leu His Glu Leu Ala Leu Pro Pro Ala Ser Leu Arg Thr
          20          25          30
Val Val Lys Glu Asn Met Cys Val Leu Pro Phe Pro Val Lys Thr Ser
          35          40          45
Gly Arg Ser Leu Thr Gly Ser Ala Trp Ser Arg Phe His Leu Pro Cys
 50          55          60
His Leu Arg Pro Gly Asp Arg Leu Pro Cys His Cys Leu Gly Lys Phe
 65          70          75          80
Arg Lys Arg Val Ala Lys Trp Cys Ile Arg Lys Asn Met Ala Arg Ser
          85          90          95
Pro His Leu Leu Gly Gly Arg Pro Asn Ser Thr Ser Gly Pro Leu Cys
          100          105          110
Asp Phe Pro Ala Pro Ser Lys Gln Val Thr Pro Leu Leu Trp Val Ser
          115          120          125
Val Ser Leu Pro Ile Lys *
          130          134

```

<210> 1616

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1616

```

Met Leu His Gln Met Lys Phe Ile Gly His Leu Ile Phe Ile Val Val
 1          5          10          15
Leu Asp Pro Asp Leu Ser Asp Met Lys Asn Asn Glu Pro Tyr Asp Tyr
          20          25          30
Lys Phe Val Lys Trp Met Thr Lys His Lys Val Met Phe Ile Val Leu
          35          40          45
Cys Lys Ile Leu Leu Tyr Phe Ile Val Asn Phe *
          50          55          59

```

<210> 1617

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1617

```

Met Pro Glu His Leu Cys Phe Glu Ile Cys Asn Thr Leu Leu Asn Phe
 1          5          10          15
Phe Ser Phe Leu Leu Leu Cys Val Thr Asp His Glu Thr Thr Phe Phe
          20          25          30
Asp Ser Gly Trp Lys Ala Ser Gly Ser Thr Val Thr Cys Lys Ala Gly
          35          40          45          48
*
```

<210> 1618
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 1618
 Met Trp Thr Val Leu Trp His Arg Phe Ser Met Val Leu Arg Leu Pro
 1 5 10 15
 Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser Leu Ser Ser Pro Pro
 20 25 30
 Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro Gln Gly Met Ala Ala
 35 40 45
 Leu Leu Ser Leu Ala Met Ala Thr Phe Thr Gln Glu Pro Gln Leu Cys
 50 55 60
 Leu Ser Cys Leu Ser Gln His Gly Ser Ile Leu Met Ser Ile Leu Lys
 65 70 75 80
 His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala *
 85 90 94

<210> 1619
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1619
 Met Ile Leu Met Leu Leu Leu Leu Ile Val Asp Leu Val Gln Leu Ala
 1 5 10 15
 Gly Asn Ala Val Ile Ser Ser Gly Ser Trp Asp Ser Ala Cys Thr Gly
 20 25 30
 Thr Pro Ser Pro Ser Thr Pro Ser Thr Trp Pro Gly Pro Thr Ser Ser
 35 40 45
 Ser Ala Pro Arg Phe *
 50 53

<210> 1620
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1620
 Met Cys Cys Ser Phe Leu Leu Glu Gly Leu Ile Ser Leu Phe Ser Leu
 1 5 10 15
 Gln Leu Phe Ser Val Gln Leu Val Leu Leu Phe Phe Leu Trp Ile Val
 20 25 30
 Ser Tyr Ser Lys Lys Gln Ile Lys Asp Thr Phe Ala Lys Thr Lys Asn
 35 40 45
 Thr Val Ala Arg Ile Leu Leu Ser Ile Pro Asp Leu Pro Ser Leu Thr
 50 55 60
 Leu Ile Thr Gln Ile Leu *
 65 70

<210> 1621
 <211> 90
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(90)
 <223> Xaa = any amino acid or nothing

<400> 1621
 Met Asp His Lys Ser Leu Trp Ala Gly Val Glu Val Leu Leu Leu Leu
 1 5 10 15
 Gln Gly Gly Ser Ala Tyr Lys Leu Val Cys Tyr Phe Thr Asn Trp Ser
 20 25 30
 Gln Asp Arg Gln Glu Pro Gly Lys Phe Thr Pro Glu Asn Ile Asp Pro
 35 40 45
 Phe Leu Cys Ser His Leu Ile Tyr Ser Phe Ala Ser Ile Glu Asn Asn
 50 55 60
 Lys Val Ile Ile Arg Thr Pro Xaa Phe Phe Pro Leu Pro Leu Gly His
 65 70 75 80
 Arg Leu Gln Thr Ile Asn Pro Arg Leu *
 85 89

<210> 1622
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1622
 Met Gln Cys Ala Ile Cys Ile Leu Leu Tyr Leu Leu Asn Lys Lys Thr
 1 5 10 15
 Val Trp Arg Cys Ser Arg Ile His His Asn Asn Thr Val Val Leu Thr
 20 25 30
 Arg Glu Ser Ser Pro Phe Leu Thr Thr Cys Thr Leu Ser Ser Val Leu
 35 40 45
 Leu Thr Lys Ala *
 50 52

<210> 1623
 <211> 978
 <212> PRT
 <213> Homo sapiens

<400> 1623
 Met Pro Ala Arg Arg Leu Leu Leu Leu Leu Thr Leu Leu Leu Pro Gly
 1 5 10 15
 Leu Gly Ile Phe Gly Ser Thr Ser Thr Val Thr Leu Pro Glu Thr Leu
 20 25 30
 Leu Phe Val Ser Thr Leu Asp Gly Ser Leu His Ala Val Ser Lys Arg
 35 40 45

Thr Gly Ser Ile Lys Trp Thr Leu Lys Glu Asp Pro Val Leu Gln Val
 50 55 60
 Pro Thr His Val Glu Glu Pro Ala Phe Leu Pro Asp Pro Asn Asp Gly
 65 70 75 80
 Ser Leu Tyr Thr Leu Gly Ser Lys Asn Asn Glu Gly Leu Thr Lys Leu
 85 90 95
 Pro Phe Thr Ile Pro Glu Leu Val Gln Ala Ser Pro Cys Arg Ser Ser
 100 105 110
 Asp Gly Ile Leu Tyr Met Gly Lys Lys Gln Asp Ile Trp Tyr Val Ile
 115 120 125
 Asp Leu Leu Thr Gly Glu Lys Gln Gln Thr Leu Ser Ser Ala Phe Ala
 130 135 140
 Asp Ser Leu Cys Pro Ser Thr Ser Leu Leu Tyr Leu Gly Arg Thr Glu
 145 150 155 160
 Tyr Thr Ile Thr Met Tyr Asp Thr Lys Thr Arg Glu Leu Arg Trp Asn
 165 170 175
 Ala Thr Tyr Phe Asp Tyr Ala Ala Ser Leu Pro Glu Asp Asp Val Asp
 180 185 190
 Tyr Lys Met Ser His Phe Val Ser Asn Gly Asp Gly Leu Val Val Thr
 195 200 205
 Val Asp Ser Glu Ser Gly Asp Val Leu Trp Ile Gln Asn Tyr Ala Ser
 210 215 220
 Pro Val Val Ala Phe Tyr Val Trp Gln Arg Glu Gly Leu Arg Lys Val
 225 230 235 240
 Met His Ile Asn Val Ala Val Glu Thr Leu Arg Tyr Leu Thr Phe Met
 245 250 255
 Ser Gly Glu Val Gly Arg Ile Thr Lys Trp Lys Tyr Pro Phe Pro Lys
 260 265 270
 Glu Thr Glu Ala Lys Ser Lys Leu Thr Pro Thr Leu Tyr Val Gly Lys
 275 280 285
 Tyr Ser Thr Ser Leu Tyr Ala Ser Pro Ser Met Val His Glu Gly Val
 290 295 300
 Ala Val Val Pro Arg Gly Ser Thr Leu Pro Leu Leu Glu Gly Pro Gln
 305 310 315 320
 Thr Asp Gly Val Thr Ile Gly Asp Lys Gly Glu Cys Val Ile Thr Pro
 325 330 335
 Ser Thr Asp Val Lys Phe Asp Pro Gly Leu Lys Ser Lys Asn Lys Leu
 340 345 350
 Asn Tyr Leu Arg Asn Tyr Trp Leu Leu Ile Gly His His Glu Thr Pro
 355 360 365
 Leu Ser Ala Ser Thr Lys Met Leu Glu Arg Phe Pro Asn Asn Leu Pro
 370 375 380
 Lys His Arg Glu Asn Val Ile Pro Ala Asp Ser Glu Lys Lys Ser Phe
 385 390 395 400
 Glu Glu Val Ile Asn Leu Val Asp Gln Thr Ser Glu Asn Ala Pro Thr
 405 410 415
 Thr Val Ser Arg Asp Val Glu Glu Lys Pro Ala His Ala Pro Ala Arg
 420 425 430
 Pro Glu Ala Pro Val Asp Ser Met Leu Lys Asp Met Ala Thr Ile Ile
 435 440 445
 Leu Ser Thr Phe Leu Leu Ile Gly Trp Val Ala Phe Ile Ile Thr Tyr
 450 455 460
 Pro Leu Ser Met His Gln Gln Gln Leu Gln His Gln Gln Phe Gln
 465 470 475 480
 Lys Glu Leu Glu Lys Ile Gln Leu Leu Gln Gln Gln Gln Gln Leu
 485 490 495
 Pro Phe His Pro Pro Gly Asp Thr Ala Gln Asp Gly Glu Leu Leu Asp
 500 505 510
 Thr Ser Gly Pro Tyr Ser Glu Ser Ser Gly Thr Ser Ser Pro Ser Thr

			515				520					525			
Ser	Pro	Arg	Ala	Ser	Asn	His	Ser	Leu	Cys	Ser	Gly	Ser	Ser	Ala	Ser
	530					535					540				
Lys	Ala	Gly	Ser	Ser	Pro	Ser	Leu	Glu	Gln	Asp	Asp	Gly	Asp	Glu	Glu
545					550					555					560
Thr	Ser	Val	Val	Ile	Val	Gly	Lys	Ile	Ser	Phe	Cys	Pro	Lys	Asp	Val
				565					570					575	
Leu	Gly	His	Gly	Ala	Glu	Gly	Thr	Ile	Val	Tyr	Arg	Gly	Met	Phe	Asp
			580					585					590		
Asn	Arg	Asp	Val	Ala	Val	Lys	Arg	Ile	Leu	Pro	Glu	Cys	Phe	Ser	Phe
		595					600					605			
Ala	Asp	Arg	Glu	Val	Gln	Leu	Leu	Arg	Glu	Ser	Asp	Glu	His	Pro	Asn
	610					615					620				
Val	Ile	Arg	Tyr	Phe	Cys	Thr	Glu	Lys	Asp	Arg	Gln	Phe	Gln	Tyr	Ile
625					630					635					640
Ala	Ile	Glu	Leu	Cys	Ala	Ala	Thr	Leu	Gln	Glu	Tyr	Val	Glu	Gln	Lys
				645					650					655	
Asp	Phe	Ala	His	Leu	Gly	Leu	Glu	Pro	Ile	Thr	Leu	Leu	Gln	Gln	Thr
			660					665					670		
Thr	Ser	Gly	Leu	Ala	His	Leu	His	Ser	Leu	Asn	Ile	Val	His	Arg	Asp
		675					680					685			
Leu	Lys	Pro	His	Asn	Ile	Leu	Ile	Ser	Met	Pro	Asn	Ala	His	Gly	Lys
	690				695						700				
Ile	Lys	Ala	Met	Ile	Ser	Asp	Phe	Gly	Leu	Trp	Lys	Lys	Leu	Ala	Val
705					710					715					720
Gly	Arg	His	Ser	Phe	Ser	Arg	Arg	Ser	Gly	Val	Pro	Gly	Thr	Glu	Gly
				725					730					735	
Trp	Ile	Ala	Pro	Glu	Met	Leu	Ser	Glu	Asp	Cys	Lys	Glu	Asn	Pro	Thr
			740					745					750		
Tyr	Thr	Val	Asp	Ile	Phe	Ser	Ala	Gly	Cys	Val	Phe	Tyr	Tyr	Val	Ile
		755					760					765			
Ser	Glu	Gly	Ser	His	Pro	Phe	Gly	Lys	Ser	Leu	Gln	Arg	Gln	Ala	Asn
	770					775					780				
Ile	Leu	Leu	Gly	Ala	Cys	Ser	Leu	Asp	Cys	Leu	His	Pro	Glu	Lys	His
785					790					795					800
Glu	Asp	Val	Ile	Ala	Arg	Glu	Leu	Ile	Glu	Lys	Met	Ile	Ala	Met	Asp
				805					810					815	
Pro	Gln	Lys	Arg	Pro	Ser	Ala	Lys	His	Val	Leu	Lys	His	Pro	Phe	Phe
			820					825					830		
Trp	Ser	Leu	Glu	Lys	Gln	Leu	Gln	Phe	Phe	Gln	Asp	Val	Ser	Asp	Arg
		835					840					845			
Ile	Glu	Lys	Glu	Ser	Leu	Asp	Gly	Pro	Ile	Val	Lys	Gln	Leu	Glu	Arg
	850					855					860				
Gly	Gly	Arg	Ala	Val	Val	Lys	Met	Asp	Trp	Arg	Glu	Asn	Ile	Thr	Val
865					870										

<210> 1624
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1624
 Met His Ser Cys Trp Thr Phe Gln Asp Leu Ser Leu Val Gln Leu Cys
 1 5 10 15
 Leu Pro Leu Ser Cys Pro Gln Gln Gly Pro Val Gly Pro Gly Gly Phe
 20 25 30
 Leu Leu Pro Val Ser Gln Val Gly Pro Pro Lys Pro Ala Gly His Trp
 35 40 45
 Gln Arg Lys Leu Leu Met Pro *
 50 55

<210> 1625
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1625
 Met Glu Leu Ala Leu Leu Cys Gly Leu Val Val Met Ala Gly Val Ile
 1 5 10 15
 Pro Ile Gln Gly Gly Ile Leu Asn Leu Asn Lys Met Val Lys Gln Val
 20 25 30
 Thr Gly Lys Met Pro Ile Leu Ser Tyr Trp Pro Tyr Gly Cys His Cys
 35 40 45
 Gly Leu Gly Gly Arg Gly Gln Pro Lys Asp Ala Thr Asp Trp Cys Cys
 50 55 60
 Gln Thr His Asp Cys Cys Tyr Asp His Leu Lys Thr Gln Gly Cys Gly
 65 70 75 80
 Ile Tyr Lys Asp Tyr Tyr Arg Tyr Asn Phe Ser Gln Gly Asn Ile His
 85 90 95
 Cys Ser Asp Lys Gly Ser Trp Cys Glu Gln Gln Leu Cys Ala Cys Asp
 100 105 110
 Lys Glu Val Ala Phe Cys Leu Lys Arg Asn Leu Asp Thr Tyr Gln Lys
 115 120 125
 Arg Leu Arg Phe Tyr Trp Arg Pro His Cys Arg Gly Gln Thr Pro Gly
 130 135 140
 Cys *
 145

<210> 1626
 <211> 385
 <212> PRT
 <213> Homo sapiens

<400> 1626
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly

1				5					10					15			
Val	Gln	Cys	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln		
			20					25					30				
Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe		
		35					40					45					
Ser	Ser	Tyr	Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu		
	50					55					60						
Glu	Trp	Val	Ser	Gly	Ile	Gly	Gly	Ser	Gly	Ser	Thr	Tyr	Tyr	Ala			
	65				70					75					80		
Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Gln	Asn		
			85					90						95			
Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val		
			100					105					110				
Tyr	Tyr	Cys	Ala	Lys	Ser	His	Pro	Ala	Tyr	Tyr	Tyr	Gly	Ser	Gly	Ser		
		115					120					125					
Tyr	Ser	Ser	His	Tyr	Tyr	Tyr	Tyr	Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln		
	130					135					140						
Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Gly	Asp	Gly	Ser	Ser	Gly	Gly	Ser		
	145				150					155					160		
Gly	Gly	Ala	Ser	Thr	Gly	Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr		
			165					170						175			
Leu	Ser	Leu	Ser	Pro	Gly	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser		
			180					185					190				
Gln	Ser	Val	Ser	Ser	Ser	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly		
		195					200					205					
Gln	Ala	Pro	Arg	Leu	Leu	Ile	Tyr	Gly	Ala	Ser	Ser	Arg	Ala	Thr	Gly		
	210					215					220						
Ile	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu		
	225				230					235					240		
Thr	Ile	Ser	Arg	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln		
			245					250						255			
Gln	Tyr	Gly	Ser	Ser	Pro	Thr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu		
			260					265					270				
Ile	Lys	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser		
		275					280					285					
Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn		
	290					295					300						
Asn	Phe	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala		
	305				310					315					320		
Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys		
			325					330						335			
Asp	Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp		
		340						345					350				
Tyr	Glu	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Ser	Gly	Ala		
		355					360					365					
Leu	Ser	Phe	Ala	Arg	Ser	Gln	Arg	Ser	Phe	Gln	Pro	Gly	Glu	Ser	Val		
	370					375					380				384		

*

<210> 1627

<211> 101

<212> PRT

<213> Homo sapiens

<400> 1627

```

Met Ile Val His Cys Thr Ile Ile Pro Leu Ser Phe Cys Val His Arg
 1           5           10           15
Leu Arg Ala Pro Leu Asp Ala Tyr Phe Gln Val Ser Arg Thr Gln Pro
           20           25           30
Asp Leu Pro Ala Thr Thr Tyr Asp Ser Glu Thr Arg Asn Pro Val Ser
           35           40           45
Glu Glu Leu Gln Val Ser Ser Ser Ser Asp Ser Asp Ser Asp Ser Ser
 50           55           60
Ala Glu Tyr Gly Gly Val Val Asp Gln Ala Glu Glu Ser Gly Ala Val
 65           70           75           80
Ile Leu Glu Gly Gln Tyr Phe Thr Gln Val Trp Thr His Lys Ala Asn
           85           90           95
Ile His Glu Ala *
           100

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<210> 1628
<211> 71
<212> PRT
<213> Homo sapiens

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<400> 1628
Met Ile Phe Tyr Val Ile Leu Ser Ser Pro Ser Ser Arg Thr Phe Phe
 1           5           10           15
Lys Ile Thr Leu Ile Met Ser Leu Gly Leu Ile Ser Lys Leu Leu Ile
           20           25           30
Thr Ser Cys Thr Phe Asp Thr Val Thr Phe Met Met Leu Thr Asn Ile
           35           40           45
Thr Lys Met Lys Ile Ser Ser Gly Lys Ala Thr Gln Ser Gln Glu Phe
 50           55           60
Phe Ser Glu Leu Ile Leu Tyr
 65           70 71

```

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<210> 1629
<211> 112
<212> PRT
<213> Homo sapiens

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<400> 1629
Met Ala His Tyr Lys Thr Glu Gln Asp Asp Trp Leu Ile Ile Tyr Leu
 1           5           10           15
Lys Tyr Leu Leu Phe Val Phe Asn Phe Phe Phe Trp Val Gly Gly Ala
           20           25           30
Ala Val Leu Ala Val Gly Ile Trp Thr Leu Val Glu Lys Ser Gly Tyr
           35           40           45
Leu Ser Val Leu Ala Ser Ser Thr Phe Ala Ala Ser Ala Tyr Ile Leu
 50           55           60
Ile Phe Ala Gly Val Leu Val Met Val Thr Gly Phe Leu Gly Phe Gly
 65           70           75           80
Ala Ile Leu Trp Glu Arg Lys Gly Cys Leu Ser Thr Tyr Phe Cys Leu
           85           90           95
Leu Leu Val Ile Phe Leu Asp Glu Leu Glu Ala Gly Val Leu Ala His
           100           105           110 112

```

<210> 1630
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1630
 Met Trp Pro Gln Leu Leu Lys Ser Phe Phe Leu Ile Pro Thr Gln Ile
 1 5 10 15
 His Phe Asn Leu Thr Asn Leu Pro Ser Trp Arg Arg Arg Glu Leu Arg
 20 25 30
 Arg Phe Val Trp Val Ser Met Pro Glu Leu Ile Gly Ala Ser *
 35 40 45 46

<210> 1631
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1631
 Met Tyr Met Trp Ser Gly Leu Leu Gly Ser Lys Trp Thr Leu Val Tyr
 1 5 10 15
 Ser His Phe Leu Asn Met Ala Pro Ala Ser Phe Ser His Tyr Gln Ala
 20 25 30
 Ser Leu Pro Leu Leu Glu His Asp Thr Leu Ser Ser Ser Arg Val His
 35 40 45
 Ser Tyr Gln Cys Pro Gly Phe Phe Cys Phe Phe Pro Ser Val Leu Glu
 50 55 60
 Phe Ser Gln Leu Gln Lys Thr Tyr Ser Leu Cys Leu Pro Phe *
 65 70 75 78

<210> 1632
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1632
 Met Phe Met Cys Arg Leu Leu Leu Trp Ala Thr Gly Ala Tyr Gly Phe
 1 5 10 15
 Leu Gly Asp Asp Val Glu Tyr Thr Ser Val Leu Pro His Gln Lys Gly
 20 25 30
 Lys Glu Ala Trp Val Phe Ile Cys Gln Leu Pro Phe Ile Ile Gly *
 35 40 45 47

<210> 1633
 <211> 58
 <212> PRT

<213> Homo sapiens

<400> 1633

```

Met Cys Leu Arg Arg Thr Leu Leu Trp His Leu His Ile Ala Pro Leu
 1           5           10           15
Val Asn Ile Leu Ser Asp Tyr Lys Pro Leu Gly Arg Trp Asn His Ala
           20           25           30
Pro Ala Leu Thr Ala Gly Ala Leu His Lys Thr Thr Ile Leu Leu Pro
           35           40           45
Gln Gly His Pro Lys Ala Ala Asn Pro *
           50           55           57

```

<210> 1634

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1634

```

Met Leu Val Phe Asn Leu Ser Leu Val Leu Ser His Ser Val Leu Glu
 1           5           10           15
Phe Val Met Phe Leu Tyr Ser Leu Asp Ser Ser His Val Cys Pro Leu
           20           25           30
Val Val Pro Val Thr Leu Asp Leu Ile Tyr Leu Val Tyr Leu Pro Cys
           35           40           45
Gln Ser Tyr Ile Leu Ile *
           50           54

```

<210> 1635

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1635

```

Met Ala Val Val Gln Ala Leu Thr Pro Leu Val Ser Ala Ala Ala Thr
 1           5           10           15
Ala Ser Cys Leu Thr Ser Cys Ser Trp Ser Leu Thr Phe Pro Glu His
           20           25           30
Ser Val Asn Tyr Gln Ser His Pro Ser Glu Thr Gln Pro Tyr Leu Leu
           35           40           45
Arg Ser Thr Lys Glu Lys His His His Trp Leu Thr Ala Lys Ala Thr
           50           55           60
Cys Pro Ala Ala Gly Ala Glu Gly Leu Pro Ser Arg Gly *
           65           70           75           77

```

<210> 1636

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1636
 Met Phe Cys Ser Phe Pro Leu Leu Ile Leu Gln Val Tyr Pro Thr Trp
 1 5 10 15
 Lys Asn Pro Asn Trp His Leu Thr Phe His Thr Ser Val Phe Ser Phe
 20 25 30
 Pro Lys Gly Val Arg Ser Leu Ala Arg Gly Ile Pro Asp His Leu His
 35 40 45
 Ser Ala *
 50

<210> 1637
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1637
 Met Gln Gln Met Met Trp Ala Gly Leu Leu Cys Pro Gln Leu Glu Trp
 1 5 10 15
 Leu Gln Gly Arg Ala Cys Arg Pro Cys Gly Leu Leu Ala Ser Asp Ala
 20 25 30
 Ala Ala Leu Trp Phe Arg Gly Gly Ile Ser Ala Trp Glu Asp Ser Cys
 35 40 45
 Ala Val Ser Asn Ile Arg His Glu Ala Tyr Asn Cys His Leu Ser Val
 50 55 60
 Phe Leu Asn Arg Cys Ala Asn Glu Leu Thr Val Gln Phe Leu Ile Ile
 65 70 75 80
 Leu Ala Phe Gln Ile Met Leu Ser Cys Ala Val Ile Ala Pro Ala Val
 85 90 95
 Pro Val Phe Gln Arg Leu Thr Leu Lys Arg Ser Gly Arg Thr Ser Leu
 100 105 110
 Gly Ser Thr Gly Arg Leu His Phe Cys Lys *
 115 120 122

<210> 1638
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1638
 Met Lys Arg Leu Arg Phe Val Leu Arg Val Phe Gln Met Thr Ala Phe
 1 5 10 15
 Ile Thr Gly Ala His Thr Ile Thr Asn Tyr Ser Asp Arg Arg Leu Tyr
 20 25 30
 Ile Ser Pro Leu Ser His Phe Phe Met Asn Ser Gly Ser Ser Ala Gln
 35 40 45
 Ser Val Leu Ser His Ser Tyr Val Ser Gln Ile Phe Phe Lys Asn Val
 50 55 60
 Ser Lys Tyr Phe *
 65 68

<210> 1639

<211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1639
 Met Tyr Val Ala Gly Tyr Leu Val Ala Asn Ser Ala Ile Cys Gln Leu
 1 5 10 15
 Thr Gln His Ser Leu Val Lys Leu Leu Leu Gln Gly Cys Phe Leu Ile
 20 25 30
 Gly Ser Leu His Leu Cys Ile Cys Val Pro Met Cys Val Cys Val Cys
 35 40 45
 Glu Tyr Arg Ile Leu His Asp Ser Lys Ile Ser Phe Lys Tyr Leu Arg
 50 55 60
 Phe Thr Ile Leu Lys Arg Glu Asn Lys Asn Lys Val Leu Gln Lys Leu
 65 70 75 80
 Lys Lys Asn Leu Lys Ser Val His Thr Leu Ser *

<210> 1640
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1640
 Met Thr Ala Trp Phe Cys Ser Phe Leu Ser Ser His Trp Val Ile Lys
 1 5 10 15
 Leu Pro Arg Phe Leu Leu Leu Val Leu Pro Phe Phe Trp Gly Lys Lys
 20 25 30
 Phe Ser Leu Gly Leu Ile Ser Gln Phe Phe Ser Lys Ala Tyr Phe Tyr
 35 40 45
 Ser Ser Tyr His Asn Tyr Ile His Thr *

<210> 1641
 <211> 459
 <212> PRT
 <213> Homo sapiens

<400> 1641
 Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Leu Phe Lys
 1 5 10 15
 Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
 20 25 30
 Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
 35 40 45
 Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
 50 55 60
 Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
 65 70 75 80
 Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
 85 90 95
 Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln

			100					105					110				
Arg	Ile	Val	Gln	Leu	Ile	Gln	Asp	Thr	Arg	Ile	His	Ile	Leu	Pro	Ser		
		115					120					125					
Met	Asn	Pro	Asp	Gly	Tyr	Glu	Val	Ala	Ala	Ala	Gln	Gly	Pro	Asn	Lys		
		130				135					140						
Pro	Gly	Tyr	Leu	Val	Gly	Arg	Asn	Asn	Ala	Asn	Gly	Val	Asp	Leu	Asn		
145					150					155					160		
Arg	Asn	Phe	Pro	Asp	Leu	Asn	Thr	Tyr	Ile	Tyr	Tyr	Asn	Glu	Lys	Tyr		
			165						170					175			
Gly	Gly	Pro	Asn	His	His	Leu	Pro	Leu	Pro	Asp	Asn	Trp	Lys	Ser	Gln		
		180						185					190				
Val	Glu	Pro	Glu	Thr	Arg	Ala	Val	Ile	Arg	Trp	Met	His	Ser	Phe	Asn		
		195					200				205						
Phe	Val	Leu	Ser	Ala	Asn	Leu	His	Gly	Gly	Ala	Val	Val	Ala	Asn	Tyr		
	210				215					220							
Pro	Tyr	Asp	Lys	Ser	Phe	Glu	His	Arg	Val	Arg	Gly	Val	Arg	Arg	Thr		
225					230					235					240		
Ala	Ser	Thr	Pro	Thr	Pro	Asp	Asp	Lys	Leu	Phe	Gln	Lys	Leu	Ala	Lys		
			245					250						255			
Val	Tyr	Ser	Tyr	Ala	His	Gly	Trp	Met	Phe	Gln	Gly	Trp	Asn	Cys	Gly		
		260					265						270				
Asp	Tyr	Phe	Pro	Asp	Gly	Ile	Thr	Asn	Gly	Ala	Ser	Trp	Tyr	Ser	Leu		
	275				280					285							
Ser	Lys	Gly	Met	Gln	Asp	Phe	Asn	Tyr	Leu	His	Thr	Asn	Cys	Phe	Glu		
	290				295				300								
Ile	Thr	Leu	Glu	Leu	Ser	Cys	Asp	Lys	Phe	Pro	Pro	Glu	Glu	Glu	Leu		
305				310					315						320		
Gln	Arg	Glu	Trp	Leu	Gly	Asn	Arg	Glu	Ala	Leu	Ile	Gln	Phe	Leu	Glu		
			325					330						335			
Gln	Val	His	Gln	Gly	Ile	Lys	Gly	Met	Val	Leu	Asp	Glu	Asn	Tyr	Asn		
		340					345						350				
Asn	Leu	Ala	Asn	Ala	Val	Ile	Ser	Val	Ser	Gly	Ile	Asn	His	Asp	Val		
	355				360							365					
Thr	Ser	Gly	Asp	His	Gly	Asp	Tyr	Phe	Arg	Leu	Leu	Leu	Pro	Gly	Ile		
	370				375						380						
Tyr	Thr	Val	Ser	Ala	Thr	Ala	Pro	Gly	Tyr	Asp	Pro	Glu	Thr	Val	Thr		
385				390					395						400		
Val	Thr	Val	Gly	Pro	Ala	Glu	Pro	Thr	Leu	Val	Asn	Phe	His	Leu	Lys		
			405					410						415			
Arg	Ser	Ile	Pro	Gln	Val	Ser	Pro	Val	Arg	Arg	Ala	Pro	Ser	Arg	Arg		
		420					425						430				
His	Gly	Val	Arg	Ala	Lys	Val	Gln	Pro	Gln	Pro	Arg	Lys	Lys	Glu	Met		
	435				440						445						
Glu	Met	Arg	Gln	Leu	Gln	Arg	Gly	Pro	Ala	*							
	450				455			458									

<210> 1642
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 1642
 Met Ala Arg Cys Thr Leu Thr Leu Leu Lys Thr Met Leu Thr Glu Leu
 1 5 10 15
 Leu Arg Gly Gly Ser Phe Glu Phe Lys Asp Met Arg Val Pro Ser Ala
 20 25 30

```

Leu Val Thr Leu His Met Leu Leu Cys Ser Ile Pro Leu Ser Gly Arg
      35                      40                      45
Leu Asp Ser Asp Glu Gln Lys Ile Gln Asn Asp Ile Ile Asp Ile Leu
      50                      55                      60
Leu Thr Phe Thr Gln Gly Val Asn Glu Lys Leu Thr Ile Ser Glu Glu
      65                      70                      75                      80
Thr Leu Ala Asn Asn Thr Trp Ser Leu Met Leu Lys Glu Val Leu Ser
      85                      90                      95
Ser Ile Leu Lys Val Pro Glu Gly Phe Phe Ser Gly Leu Ile Leu Leu
      100                     105                     110
Ser Glu Leu Leu Pro Leu Pro Leu Pro Met Gln Thr Thr Gln Val Ser
      115                     120                     125
Leu Pro Tyr Asn Met His Leu Ile Asn Asp Cys Ser Asn Thr Phe *
      130                     135                     140                     143

```

<210> 1643

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1643

```

Met Gly Arg Arg Trp Leu Phe Leu Ile Ala Cys Leu Arg Ser Ala Ser
  1                      5                      10                      15
Ile Leu Ala Trp Ala Thr Trp Arg Asn Pro Val Ser Thr Lys Asn Lys
      20                      25                      30
Lys Leu Ala Ser His Asp Gly Pro His Leu Ala Val Pro Ala Ile Arg
      35                      40                      45
Glu Ala Glu Ala Gly Arg Trp Leu Lys Pro Arg Arg Arg Arg Leu Gln
      50                      55                      60
Arg Pro Lys Ile Ala Arg
      65                      70

```

<210> 1644

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1644

```

Met Gly Met Gly Thr Leu Ile Ile Met Asn Val Trp Val Leu Phe Ile
  1                      5                      10                      15
Pro Thr Arg Leu Arg Ile Asp Gln Gln Pro Val His Ile Lys Pro Ser
      20                      25                      30
Met Arg Val Leu Asp Lys Trp Val Ser Ala Phe Val His Lys Gly Phe
      35                      40                      45
Thr Trp Gly Thr Ser Glu Arg Ile Asn Thr Gly Ser Ser Ser Asp Ile
      50                      55                      60
Thr Leu Gly Ile Leu Asn Lys Cys Gly Trp Ala Val Phe Cys Ala Ala
      65                      70                      75                      80
Pro *
      81

```

<210> 1645
 <211> 256
 <212> PRT
 <213> Homo sapiens

<400> 1645
 Met Ala Ala Leu Thr Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala
 1 5 10 15
 Leu Ala Gly Asp Thr Gln Pro Arg Phe Leu Trp Gln Gly Lys Tyr Lys
 20 25 30
 Cys His Phe Phe Asn Gly Thr Glu Arg Val Gln Phe Leu Glu Arg Leu
 35 40 45
 Phe Tyr Asn Gln Glu Glu Phe Val Arg Phe Asp Ser Asp Val Gly Glu
 50 55 60
 Tyr Arg Ala Val Thr Glu Leu Gly Arg Pro Val Ala Glu Ser Trp Asn
 65 70 75 80
 Ser Gln Lys Asp Ile Leu Glu Asp Arg Arg Gly Gln Val Asp Thr Val
 85 90 95
 Cys Arg His Asn Tyr Gly Val Gly Glu Ser Phe Thr Val Gln Arg Arg
 100 105 110
 Val His Pro Glu Val Thr Val Tyr Pro Ala Lys Thr Gln Pro Leu Gln
 115 120 125
 His His Asn Leu Leu Val Cys Ser Val Ser Gly Phe Tyr Pro Gly Ser
 130 135 140
 Ile Glu Val Arg Trp Phe Arg Asn Gly Gln Glu Glu Lys Ala Gly Val
 145 150 155 160
 Val Ser Thr Gly Leu Ile Gln Asn Gly Asp Trp Thr Phe Gln Thr Leu
 165 170 175
 Val Met Leu Glu Thr Val Pro Arg Ser Gly Glu Val Tyr Thr Cys Gln
 180 185 190
 Val Glu His Pro Ser Val Met Ser Pro Leu Thr Val Glu Trp Arg Ala
 195 200 205
 Arg Ser Glu Ser Ala Gln Ser Lys Met Leu Ser Gly Val Gly Gly Phe
 210 215 220
 Val Leu Gly Leu Leu Phe Leu Gly Ala Gly Leu Phe Ile Tyr Phe Arg
 225 230 235 240
 Asn Gln Lys Gly His Ser Gly Leu Gln Pro Thr Gly Phe Leu Ser *
 245 250 255

<210> 1646
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 1646
 Met Val Ala Trp Arg Ser Ala Phe Leu Val Cys Leu Ala Phe Ser Leu
 1 5 10 15
 Ala Thr Leu Val Gln Arg Gly Ser Gly Asp Phe Asp Asp Phe Asn Leu
 20 25 30
 Glu Asp Ala Val Lys Glu Thr Ser Val Lys Gln Pro Trp Asp His
 35 40 45
 Thr Thr Thr Thr Thr Thr Asn Arg Pro Gly Thr Thr Arg Ala Pro Ala
 50 55 60
 Lys Pro Pro Gly Ser Gly Leu Asp Leu Ala Asp Ala Leu Asp Asp Gln
 65 70 75 80

```

Asp Asp Gly Arg Arg Lys Pro Gly Ile Gly Gly Arg Glu Arg Trp Asn
      85                      90                      95
His Val Thr Thr Thr Thr Lys Arg Pro Val Thr Thr Arg Ala Pro Ala
      100                      105                      110
Asn Thr Leu Gly Asn Asp Phe Asp Leu Ala Asp Ala Leu Asp Asp Arg
      115                      120                      125
Asn Asp Arg Asp Asp Gly Arg Arg Lys Pro Ile Ala Gly Gly Gly Gly
      130                      135                      140
Phe Ser Asp Lys Asp Leu Glu Asp Ile Val Gly Gly Gly Glu Tyr Lys
      145                      150                      155                      160
Pro Asp Lys Gly Lys Gly Asp Gly Arg Tyr Gly Ser Asn Asp Asp Pro
      165                      170                      175
Gly Ser Gly Met Val Ala Glu Pro Gly Thr Ile Ala Gly Val Ala Ser
      180                      185                      190
Ala Leu Ala Met Ala Leu Ile Gly Ala Val Ser Ser Tyr Ile Ser Tyr
      195                      200                      205
Gln Gln Lys Lys Phe Cys Phe Ser Ile Gln Gln Gly Leu Asn Ala Asp
      210                      215                      220
Tyr Val Lys Gly Glu Asn Leu Glu Ala Val Val Cys Glu Glu Pro Gln
      225                      230                      235                      240
Val Lys Tyr Ser Thr Leu His Thr Gln Ser Ala Glu Pro Pro Pro Pro
      245                      250                      255
Pro Glu Pro Ala Arg Ile *
      260                      262

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<210> 1647
<211> 74
<212> PRT
<213> Homo sapiens

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<400> 1647
Met Tyr Leu Leu Cys Trp Leu Tyr Ile Met Gly Val Leu Gly Ala Ser
  1                      5                      10                      15
Cys Asn Trp His Val Gly Val Pro Phe Pro Gly Thr His Trp Pro Arg
      20                      25                      30
Ser Gln Asn His Leu Leu Trp Val Tyr Asn His Leu Asn Glu Leu Pro
      35                      40                      45
Val Pro Ala Gly Arg Ser Ser Glu Gln Leu Tyr Leu Gly Tyr Thr Glu
      50                      55                      60
Lys Tyr Gly Arg Arg Glu Arg Lys Ala *
      65                      70                      73

```

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<210> 1648
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1648
Met Gly Leu Cys Gly Met Trp Val Leu Thr Ala Phe Leu Cys Glu Pro
  1                      5                      10                      15
Met Gly Phe Arg His Arg Val Cys Pro His Arg Cys Val Arg Gly Ser
      20                      25                      30
Gly Arg Gly Ser Gly Cys Glu Cys Val Thr Met Trp Pro Cys Gly Ile

```

```
<210> 1649
<211> 90
<212> PRT
<213> Homo sapiens
```

```
<210> 1650
<211> 113
<212> PRT
<213> Homo sapiens
```

```
<210> 1651
<211> 50
<212> PRT
<213> Homo sapiens
```

<400> 1651

```

Met Phe Ile Lys Phe Leu Arg Ile Leu Ile Ser Leu Gln Cys Ser Ser
 1           5           10           15
Phe Lys Phe Thr Val Thr Ala Lys Val Leu Phe Met Thr Tyr Lys Lys
           20           25           30
Arg Ala Gln Ser Asp Phe Phe Leu Val Phe Val Asp Arg Glu Arg Ser
           35           40           45
Pro *
49

```

<210> 1652

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1652

```

Met Ser Arg Ala Gly Met Leu Gly Val Val Cys Ala Leu Leu Val Trp
 1           5           10           15
Ala Tyr Leu Ala Val Gly Lys Leu Val Val Arg Met Thr Phe Thr Glu
           20           25           30
Leu Cys Thr His His Pro Trp Ser Leu Arg Cys Glu Ser Phe Cys Arg
           35           40           45
Ser Arg Val Thr Ala Cys Leu Pro Ala Pro Ala Pro Trp Leu Arg Pro
           50           55           60
Phe Leu Cys Pro Met Leu Phe Ser Asp Arg Asn Pro Val Glu Cys His
           65           70           75           80
Leu Phe Gly Glu Ala Val Ser Asp Pro Val Cys Lys Gly Leu Leu Pro
           85           90           95
His Tyr Phe Trp His Pro Thr Phe Phe Pro Val Lys Ala Asn Cys Leu
           100           105           110
Val Ser Phe Cys Pro Thr Thr Val *
           115           120

```

<210> 1653

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1653

```

Met Trp Ser Leu Trp Ile Trp Val Asp Gln His Gln Ala Arg Leu Ile
 1           5           10           15
Pro Ser Pro Gln Val Leu Leu Leu Leu Leu Arg Glu Thr Pro Ser Thr
           20           25           30
Ala Ala Ala Val Ala Gly Trp Leu Val Val Ala Ser Met Ala Leu Leu
           35           40           45
Gln Leu His Ala Val Gly Gly Val Ala Leu Thr Ser Ser His Pro Phe
           50           55           60
Met Trp Ala Thr Gly Glu Leu Arg Lys Pro Pro Trp Gln Gly Ser
           65           70           75           80
Ala Gly Ser Ala Ser Gly Val Glu Glu Leu Thr Gly Lys His Ser Cys
           85           90           95
Pro Gly Pro Glu Glu Pro Ala Thr Val Gln Lys Ala Pro Ala *

```

100

105

110

<210> 1654
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1654
 Met Trp Ile Cys Arg Val Lys Gln Ala Trp Leu Pro Pro Leu Leu Ser
 1 5 10 15
 Pro Leu Gly Pro Pro Thr Pro Trp Asp Pro Phe Tyr Ala Ala Pro Ser
 20 25 30
 Pro Pro Val Trp Val Gly Ser Gly Tyr Trp Tyr Arg Gly Leu Leu Ser
 35 40 45
 Pro Pro Asp Gly Gly Gln Gly Ser Phe Pro Pro His Leu Cys Pro Gln
 50 55 60
 Cys Pro Val Gln Ala Gln Ala Gln Ile Gly Pro Tyr Phe Arg Glu Leu
 65 70 75 80
 Gly Glu Pro Pro Ser Glu Thr Lys Trp Tyr Leu Asn Ser His Ser His
 85 90 95
 His Arg Ala Ala Gly Thr Gln Arg Arg Leu Arg Cys Leu Gln His Leu
 100 105 110
 Leu Gly Gly Gly Gly Pro Gly Ile Gly Ser Glu Ser Pro Asn Glu Gly
 115 120 125
 Pro Gly Gln Val Thr His Ala Cys Asn Leu Ser Thr Leu Gly Gly Lys
 130 135 140
 Asp Val Arg Ile Thr *
 145 149

<210> 1655
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1655
 Met Ser Arg Asn Leu Arg Thr Ala Leu Ile Phe Gly Gly Phe Ile Ser
 1 5 10 15
 Leu Ile Gly Ala Ala Phe Tyr Pro Ile Tyr Phe Arg Pro Leu Met Arg
 20 25 30
 Leu Glu Glu Tyr Lys Lys Glu Gln Ala Ile Asn Arg Ala Gly Ile Val
 35 40 45
 Gln Glu Asp Val Gln Pro Pro Gly Leu Lys Val Trp Ser Asp Pro Phe
 50 55 60
 Gly Arg Lys *
 65 67

<210> 1656
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1656

```

Met His Lys Tyr Leu Cys Val Phe Glu Tyr Leu Ser Asn Leu Ser Lys
 1          5          10          15
Cys Met Arg Leu Tyr Leu Ile Leu Leu Ala Ser Ile Cys Met Tyr Leu
          20          25          30
Cys Val Ala Arg Arg Val Phe Leu Phe Ala Ser Val Ser Thr Gln Gly
          35          40          45
Lys Ser Leu Met Tyr Ser Thr Gln Lys Val Val Lys *
          50          55          60

```

<210> 1657

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1657

```

Met Asn Trp Gln His Ser Thr Met Tyr Leu Phe Phe Ala Val Ser Gly
 1          5          10          15
Ile Val Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val
          20          25          30
Asp Arg Leu Val Met Gly Cys Gly Lys Tyr Ser Trp Lys Val Ser Ser
          35          40          45
Ser Thr Thr Thr Ser Thr Thr Gly Leu Arg Trp Thr Ser Thr Ser Thr
          50          55          60
His Ser Cys Cys Met Leu Cys Ser Glu Gly Val Leu Val Ser Pro *
          65          70          75          79

```

<210> 1658

<211> 160

<212> PRT

<213> Homo sapiens

<400> 1658

```

Met Ala Phe Leu Leu Tyr His Leu Val Tyr His Ile Pro Pro Met Ala
 1          5          10          15
Pro Val Ser Phe Val Phe Glu Thr Lys Ser Arg Ser Ala Ala Gln Ala
          20          25          30
Gly Val Gln Trp His Asp Pro Gly Ser Pro Gln Pro Leu Pro Pro Arg
          35          40          45
Phe Lys Arg Phe Ser Cys His Gly Leu Asn Ile Lys Phe Ala Phe Phe
          50          55          60
Ser His Leu Lys Glu Leu His Leu Asp Ser Gly His Cys Phe Ile Phe
          65          70          75          80
Ile Arg Leu Val Lys Gly Ala Val Cys Leu Ile His Val Gln Ile Arg
          85          90          95
Ile Pro Ser Ala Asp Glu Asp Ile Thr Ile Leu Phe Phe Ile Val Ser
          100          105          110
Lys His Phe Leu Glu Ser Val Phe Lys Met Leu Gln Trp Ser Gln Met
          115          120          125
Thr Leu Ala Thr Val Lys Thr Thr Phe Ile Gly Leu Asn Glu Phe Ile
          130          135          140
Cys Ser Pro Ser Thr Leu Pro Ser Gly Lys Lys Asn Gly Leu Ile *

```


145

150

155

159

<210> 1659
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1659
 Met Trp Arg Leu Pro His Ser Gln Phe Ile His Ile Val Ile Leu Pro
 1 5 10 15
 Leu Lys Val Phe Leu Phe Leu Phe Cys Phe Leu Arg Trp Ser Phe Ser
 20 25 30
 Leu Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Pro Leu Gln
 35 40 45
 Pro Pro Pro Pro Arg Leu Lys Arg Phe Phe Cys Leu Ser Leu Pro Ser
 50 55 60
 Ser Trp Asp Tyr Arg His Ser Pro Pro His Pro Ala Asn Phe Tyr Thr
 65 70 75 80
 Phe Gly Arg Asp Gly Val Ser Pro Cys *
 85 89

<210> 1660
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1660
 Met Cys Ala His Leu Val Cys Val Lys Trp Cys Leu Val Ile Leu Ile
 1 5 10 15
 Cys Ile Phe Gln Asn Thr Asn Glu Val Glu Gln Leu Ile Leu Cys Val
 20 25 30
 Leu Leu Ile Pro Leu Ser Ser Ser Met Thr Asp Leu Phe Leu Ser Leu
 35 40 45
 Cys Val Cys Val Phe Cys Tyr *
 50 55

<210> 1661
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1661
 Met Leu Gly Met Ile Ser Met Leu Leu Asn Ala Leu Lys Leu Leu Val
 1 5 10 15
 Tyr Leu Thr Glu Cys Cys Met Ala Leu Glu Glu Arg Val His Ser Val
 20 25 30
 Leu Ile Gly Trp Ser Val Ser Phe Lys Arg Ile Gln Arg Gln Leu Asn
 35 40 45
 Gln Val Gly Leu Ile Glu Phe Phe Lys Met Val Leu Cys Ser Asn Thr
 50 55 60

Asp Gly Thr Glu Gly His Tyr Pro Lys *
 65 70 73

<210> 1662
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 1662
 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1 5 10 15
 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
 20 25 30
 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
 35 40 45
 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
 50 55 60
 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65 70 75 80
 Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
 85 90 95
 Ala Arg Val Gln Ala Leu Gly Trp His Gly Pro Leu Leu Ala Leu Ser
 100 105 110
 Phe Leu Ala Phe Trp Val Pro Trp Ala Pro Ala Gly Leu Gln Phe Leu
 115 120 125
 Leu Cys Leu Cys Leu Tyr Asp Gly Phe Leu Thr Leu Val Asp Leu His
 130 135 140
 His His Ala Leu Leu Ala Asp Leu Ala Leu Ser Ala His Asp Arg Thr
 145 150 155 160
 His Leu Asn Phe Tyr Cys Ser Leu Phe Ser Ala Ala Gly Ser Leu Ser
 165 170 175
 Val Phe Ala Ser Tyr Ala Phe Trp Asn Lys Glu Asp Phe Ser Ser Phe
 180 185 190
 Arg Ala Phe Cys Val Thr Leu Ala Val Ser Ser Gly Leu Gly Phe Leu
 195 200 205
 Gly Ala Thr Gln Leu Leu Arg Arg Arg Val Glu Ala Ala Arg Lys Asp
 210 215 220
 Pro Gly Cys Ser Gly Leu Val Val Asp Ser Gly Leu Cys Gly Glu Glu
 225 230 235 240
 Leu Leu Val Gly Ser Glu Glu Ala Asp Ser Ile Thr Leu Gly Arg Tyr
 245 250 255
 Leu Arg Gln Leu Ala Arg His Arg Asn Phe Leu Cys Phe Ser *
 260 265 270

<210> 1663
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1663
 Met Pro His Ile Gln Thr Leu Leu Arg Thr Leu Phe Ala Ser His Leu
 1 5 10 15
 Leu Val Ser Leu Trp Gln Ser Glu Pro Met Ala Lys Pro Arg Met Arg

			20						25					30			
Lys	Tyr	Asn	Thr	Ser	Ser	Glu	Tyr	Leu	Ser	Glu	Leu	Asp	Thr	Glu	Ala		
		35					40					45					
Ser	Arg	Val	Ser	*													
	50		52														

<210> 1664
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 1664																	
Met	Gly	Leu	Gly	Gln	Pro	Gln	Ala	Trp	Leu	Leu	Gly	Leu	Pro	Thr	Ala		
1				5					10					15			
Val	Val	Tyr	Gly	Ser	Leu	Ala	Leu	Phe	Thr	Thr	Ile	Leu	His	Asn	Val		
			20					25					30				
Phe	Leu	Leu	Tyr	Tyr	Val	Asp	Thr	Phe	Val	Ser	Val	Tyr	Lys	Ile	Asn		
		35					40					45					
Lys	Met	Ala	Phe	Trp	Val	Gly	Glu	Thr	Val	Phe	Leu	Leu	Trp	Asn	Ser		
	50					55					60						
Leu	Asn	Asp	Pro	Leu	Phe	Gly	Trp	Leu	Ser	Asp	Arg	Gln	Phe	Leu	Ser		
	65				70					75					80		
Ser	Gln	Pro	Arg	Ser	Gly	Ala	Gly	Leu	Ser	Ser	Arg	Ala	Val	Val	Leu		
				85					90					95			
Ala	Arg	Val	Gln	Ala	Leu	Gly	Trp	His	Gly	Pro	Leu	Leu	Ala	Leu	Ser		
			100					105					110				
Phe	Leu	Ala	Phe	Trp	Val	Pro	Trp	Ala	Pro	Ala	Gly	Leu	Gln	Phe	Leu		
		115					120					125					
Leu	Cys	Leu	Cys	Leu	Tyr	Asp	Gly	Phe	Leu	Thr	Leu	Val	Asp	Leu	His		
	130					135					140						
His	His	Ala	Leu	Leu	Ala	Asp	Leu	Ala	Leu	Ser	Ala	His	Asp	Arg	Thr		
	145				150					155					160		
His	Leu	Asn	Phe	Tyr	Cys	Ser	Leu	Phe	Ser	Ala	Ala	Gly	Ser	Leu	Ser		
			165						170					175			
Val	Phe	Ala	Ser	Tyr	Ala	Phe	Trp	Asn	Lys	Glu	Asp	Phe	Ser	Ser	Phe		
		180						185					190				
Arg	Ala	Phe	Cys	Val	Thr	Leu	Ala	Val	Ser	Ser	Gly	Leu	Gly	Phe	Leu		
		195					200					205					
Gly	Ala	Thr	Gln	Leu	Leu	Arg	Arg	Arg	Val	Glu	Ala	Ala	Arg	Lys	Asp		
	210					215					220						
Pro	Gly	Cys	Ser	Gly	Leu	Val	Val	Asp	Ser	Gly	Leu	Cys	Gly	Glu	Glu		
	225				230					235				240			
Leu	Leu	Val	Gly	Ser	Glu	Glu	Ala	Asp	Ser	Ile	Thr	Leu	Gly	Arg	Tyr		
			245					250						255			
Leu	Arg	Gln	Leu	Ala	Arg	His	Arg	Asn	Phe	Leu	Cys	Phe	Ser	*			
		260						265					270				

<210> 1665
 <211> 284
 <212> PRT
 <213> Homo sapiens

<400> 1665

```

Met Asp Glu Lys Ser Asn Lys Leu Leu Leu Ala Leu Val Met Leu Phe
 1          5          10          15
Leu Phe Ala Val Ile Val Leu Gln Tyr Val Cys Pro Gly Thr Glu Cys
          20          25          30
Gln Leu Leu Arg Leu Gln Ala Phe Ser Ser Pro Val Pro Asp Pro Tyr
          35          40          45
Arg Ser Glu Asp Glu Ser Ser Ala Arg Phe Val Pro Arg Tyr Asn Phe
          50          55          60
Thr Arg Gly Asp Leu Leu Arg Lys Val Asp Phe Asp Ile Lys Gly Asp
          65          70          75          80
Asp Leu Ile Val Phe Leu His Ile Gln Lys Thr Gly Gly Thr Thr Phe
          85          90          95
Gly Arg His Leu Val Arg Asn Ile Gln Leu Glu Gln Pro Cys Glu Cys
          100          105          110
Arg Val Gly Gln Lys Lys Cys Thr Cys His Arg Pro Gly Lys Arg Glu
          115          120          125
Thr Trp Leu Phe Ser Arg Phe Ser Thr Gly Trp Ser Cys Gly Leu His
          130          135          140
Ala Asp Trp Thr Glu Leu Thr Ser Cys Val Pro Ser Val Gly Asp Gly
          145          150          155          160
Lys Arg Asp Ala Arg Leu Arg Pro Ser Arg Trp Arg Ile Phe His Ile
          165          170          175
Leu Tyr Ala Ala Cys Thr Asp Ile Arg Gly Ser Pro Asn Thr Asn Ala
          180          185          190
Gly Ala Asn Ser Pro Ser Phe Thr Lys Thr Arg Asn Thr Ser Lys Ser
          195          200          205
Trp Lys Asn Phe His Tyr Ile Thr Ile Leu Gln Asp Pro Gly Ala Arg
          210          215          220
Ser Leu Ser Glu Trp Arg Pro Val Leu Lys Arg Gly Thr Leu Glu Gly
          225          230          235          240
Leu Leu Ala Cys Trp Pro Trp Lys Ala Pro Pro Pro Leu Lys Lys Leu
          245          250          255
Ser Thr Trp Tyr Pro Gly Glu Glu Leu Val Trp Leu Ala Pro Leu Gln
          260          265          270
Lys Ile Ile Gly Leu Ala Leu Leu Ile Tyr Pro *
          275          280          283

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<210> 1666

<211> 67

<212> PRT

<213> Homo sapiens

<400> 1666

```

Met Thr Leu Val Leu Phe Leu Val Leu Ala Leu Met Ile Thr Ile Cys
 1          5          10          15
Ile Leu Ser Tyr His Ser His Leu Leu Ile Asn Ser Asn Leu Ile Pro
          20          25          30
Val Lys Tyr Arg Asn Phe Pro Ser Ile Leu Leu His Phe Leu His Leu
          35          40          45
Trp Leu Ser Phe Cys His Ile Ser His Met His Ile Cys His Asn Leu
          50          55          60
Leu Ile *
          65          66

```

<210> 1667
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1667
 Met Asn Thr His Trp Asn Ile Leu Pro Val Glu Arg Ser Cys Pro Leu
 1 5 10 15
 Trp Ile Ser Ser Glu Leu Ser Tyr Cys Ser Ile Lys Leu Leu Phe Ile
 20 25 30
 Leu Leu Thr Leu His Leu Pro Ala Tyr Leu Ile Leu Pro Gly His Lys
 35 40 45
 Ile Arg Thr Gln Asp Leu Pro Asn Glu Ala Asn Arg Ala Val Thr Gln
 50 55 60
 Thr Gly Leu Arg His Ala Leu Tyr Gln Ser Ile Ser Cys Trp *
 65 70 75 78

<210> 1668
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1668
 Met Trp Gly Leu Leu Ile Pro Cys Ile Leu Gly Cys Met Lys Leu Pro
 1 5 10 15
 His Asn Leu Leu Met Leu Phe Ser Leu Glu Thr Phe Leu Thr Leu Arg
 20 25 30
 Phe Ile Leu Asp Ser Phe Tyr Ser Tyr Val Phe Lys Pro Thr Asn Lys
 35 40 45
 Arg Phe Cys Asn Ile *
 50 53

<210> 1669
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1669
 Met Met Ala Gly Ile Arg Ala Leu Phe Met Tyr Leu Trp Leu Gln Leu
 1 5 10 15
 Asp Trp Val Ser Arg Gly Glu Ser Val Gly Leu His Leu Pro Thr Leu
 20 25 30
 Ser Val Gln Glu Gly Asp Asn Ser Ile Ile Asn Cys Ala Tyr Ser Asn
 35 40 45
 Ser Ala Ser Asp Tyr Phe Ile Trp Tyr Lys Gln Glu Ser Gly Lys Gly
 50 55 60
 Pro Gln Phe Ile Ile Asp Ile Arg Ser Asn Met Asp Lys Arg Gln Gly
 65 70 75 80
 Gln Arg Val Thr Val Leu Leu Asn Lys Thr Val Lys His Leu Ser Leu
 85 90 95
 Gln Ile Ala Ala Thr Gln Pro Gly Asp Ser Ala Val Tyr Phe Cys Ala
 100 105 110

Glu Ile Pro Glu Gln Arg *
 115 118

<210> 1670
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 1670
 Met Cys Leu Leu Cys Cys Glu Cys Leu Phe His Leu Trp Lys Arg Ile
 1 5 10 15
 Asn Trp Trp Gln Gly Phe Cys Ser Phe Tyr Leu Leu Trp Val Gly
 20 25 30
 Leu Leu Ser Phe Pro Pro Asp Pro Trp Lys Ser Phe Thr Pro Ala
 35 40 45
 Ile Leu Phe Leu Ala Trp Gly Thr Gly Ser Ser Pro Gly Arg His Arg
 50 55 60
 Phe Ser Leu Pro Thr Asp Arg Arg Pro Ser Ala His Ser Pro Phe Leu
 65 70 75 80
 Ser Thr Leu Gln His Ser Ile Arg Thr Leu Phe His Ser Pro Ile Arg
 85 90 95
 Ser Ser Arg Phe Ala Phe Val Ser Ser Leu His Ser Tyr Thr Ser Ile
 100 105 110
 Pro Ser Leu Pro
 115 116

<210> 1671
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1671
 Met Ser His Cys Gly Leu Leu Phe Leu Val Val Thr Trp Leu Leu Ser
 1 5 10 15
 Phe Ile Phe Leu Val Cys Lys Met Arg Ile Thr Phe Leu Phe Cys Leu
 20 25 30
 Leu Thr Val Asp Met Lys Pro Asn Lys Val Leu Tyr Met Lys Cys Phe
 35 40 45
 Lys Cys Ile Ile Leu Leu Ser Cys Tyr Pro Leu Lys Phe Leu Val Ile
 50 55 60
 Arg Asn Phe Glu Ile *
 65 69

<210> 1672
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 1672
 Met Arg Val Leu Cys Ala Phe Pro Glu Ala Met Pro Ser Ser Asn Ser

1				5					10					15			
Arg	Pro	Pro	Ala	Cys	Leu	Ala	Pro	Gly	Ala	Leu	Tyr	Leu	Ala	Leu	Leu		
			20					25					30				
Leu	His	Leu	Ser	Leu	Ser	Ser	Gln	Ala	Gly	Asp	Arg	Arg	Pro	Leu	Pro		
		35					40					45					
Val	Asp	Arg	Ala	Ala	Gly	Leu	Lys	Glu	Lys	Thr	Leu	Ile	Leu	Leu	Asp		
	50				55						60						
Val	Ser	Thr	Lys	Asn	Pro	Val	Arg	Thr	Val	Asn	Glu	Asn	Phe	Leu	Ser		
	65			70						75					80		
Leu	Gln	Leu	Asp	Pro	Ser	Ile	Ile	His	Asp	Gly	Trp	Leu	Asp	Phe	Leu		
			85						90					95			
Ser	Ser	Lys	Arg	Leu	Val	Thr	Leu	Ala	Arg	Gly	Leu	Ser	Pro	Ala	Phe		
		100						105					110				
Leu	Arg	Phe	Gly	Gly	Lys	Arg	Thr	Asp	Phe	Leu	Gln	Phe	Gln	Asn	Leu		
	115					120					125						
Arg	Asn	Pro	Ala	Lys	Ser	Arg	Gly	Gly	Pro	Gly	Pro	Asp	Tyr	Tyr	Leu		
	130				135						140						
Lys	Asn	Tyr	Glu	Asp	Asp	Ile	Val	Arg	Ser	Asp	Val	Ala	Leu	Asp	Lys		
	145			150					155					160			
Gln	Lys	Gly	Cys	Lys	Ile	Ala	Gln	His	Pro	Asp	Gly	Met	Leu	Glu	Pro		
			165					170					175				
Pro	Arg	Glu	Lys	Ala	Ala	Gln	Met	His	Leu	Val	Leu	Leu	Lys	Glu	Gln		
		180					185					190					
Phe	Ser	Asn	Thr	Tyr	Ser	Asn	Leu	Ile	Leu	Thr	Glu	Pro	Asn	Asn	Tyr		
	195				200						205						
Arg	Thr	Met	His	Gly	Arg	Ala	Val	Asn	Gly	Ser	Gln	Leu	Gly	Lys	Asp		
	210				215						220						
Tyr	Ile	Gln	Leu	Lys	Ser	Leu	Leu	Gln	Pro	Ile	Arg	Ile	Tyr	Ser	Arg		
	225			230					235					240			
Ala	Ser	Leu	Tyr	Gly	Pro	Asn	Ile	Val	Arg	Pro	Arg	Lys	Asn	Val	Ile		
			245					250					255				
Ala	Leu	Leu	Asp	Gly	Leu	*											
		260			262												

<210> 1673

<211> 156

<212> PRT

<213> Homo sapiens

<400> 1673

Met	Lys	Trp	Lys	Thr	Gly	Val	Ala	Ile	Phe	Val	Val	Val	Val	Val	Tyr		
1				5					10						15		
Leu	Val	Thr	Gly	Gly	Leu	Val	Phe	Arg	Ala	Leu	Glu	Gln	Pro	Phe	Glu		
		20					25					30					
Ser	Ser	Gln	Lys	Asn	Thr	Ile	Ala	Leu	Glu	Lys	Ala	Glu	Phe	Leu	Arg		
	35			40							45						
Asp	His	Val	Cys	Val	Ser	Pro	Gln	Glu	Leu	Glu	Thr	Leu	Ile	Gln	His		
	50			55						60							
Ala	Leu	Asp	Ala	Asp	Asn	Ala	Gly	Val	Ser	Pro	Ile	Gly	Asn	Ser	Ser		
	65			70					75					80			
Asn	Asn	Ser	Ser	His	Trp	Asp	Leu	Gly	Ser	Ala	Phe	Phe	Phe	Ala	Gly		
			85					90					95				
Thr	Val	Ile	Thr	Thr	Ile	Gly	Tyr	Gly	Asn	Ile	Ala	Pro	Ser	Thr	Glu		
		100				105					110						
Gly	Gly	Lys	Ile	Phe	Cys	Ile	Leu	Tyr	Ala	Ile	Phe	Gly	Phe	Pro	Leu		
		115					120					125					

Phe Gly Phe Leu Leu Ala Gly Ile Glu Asp Gln Leu Gly Thr Ile Phe
 130 135 140
 Gly Lys Ser Ile Ala Arg Val Glu Lys Val Phe *
 145 150 155

<210> 1674
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1674
 Met Cys Cys Val Ile Cys Ser Lys Gln Tyr Val Leu Leu Ser Ile Leu
 1 5 10 15
 Leu Cys Leu Leu Ala Ser Gly Ser Val Asp Phe Phe Leu Leu Pro His
 20 25 30
 Ser Val Leu Ala Asp Asp Asp Gly Ile Lys Val Val Lys Val Thr Phe
 35 40 45
 Asn Lys Gln Asp Ser Leu Val Ile Leu Thr Ile Met Val Ser Leu Thr
 50 55 60
 Val Ser Phe Pro Gly Leu Cys Thr Cys Gln Ala Gly Thr Gln Asp Thr
 65 70 75 80
 Tyr Thr *
 82

<210> 1675
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1675
 Met Val His Cys Leu Ile Cys Met Trp Thr Cys Trp Pro Thr Gly Ala
 1 5 10 15
 Ile Leu His Arg Val Cys Arg Thr His Trp Pro Arg Gly Val Ser His
 20 25 30
 Thr His Val Trp Met His Trp Pro Thr Cys Val Val Ser Arg Leu Phe
 35 40 45
 Val Asp Val Leu Gly *
 50 53

<210> 1676
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1676
 Met Gly Val Met Ala Met Leu Met Leu Pro Leu Leu Leu Gly Ile
 1 5 10 15
 Ser Gly Leu Leu Phe Ile Tyr Gln Glu Val Ser Arg Leu Trp Ser Lys
 20 25 30
 Ser Ala Val Gln Asn Lys Val Val Val Ile Thr Asp Ala Ile Ser Gly


```

      35              40              45
Leu Gly Lys Glu Cys Ala Arg Val Phe His Thr Gly Gly Ala Arg Leu
      50              55              60
Val Leu Cys Gly Lys Asn Trp Glu Arg Leu Glu Asn Leu Tyr Asp Ala
      65              70              75              80
Leu Ile Ser Val Ala Asp Pro Ser Lys Thr Phe Thr Pro Lys Leu Val
      85              90              95
Leu Leu Asp Leu Ser Asp Ile Ser Cys Val Pro His Val Ala Lys Glu
      100              105              110
Ala Leu Asp Cys Tyr Gly *
      115              118

```

```

<210> 1677
<211> 49
<212> PRT
<213> Homo sapiens

```

```

<400> 1677
Met Arg Tyr Lys Cys Val Leu Ser Lys Ile Leu Trp Phe Cys Pro Trp
  1              5              10              15
Lys Tyr Val Trp Lys Asn Ser Phe Phe Asn Leu Glu Gly Met Phe Met
      20              25              30
Phe Ile Glu Val Thr Cys Arg His Tyr Ser Thr Cys Gly Ile Phe Lys
      35              40              45              48
*
```

```

<210> 1678
<211> 127
<212> PRT
<213> Homo sapiens

```

```

<400> 1678
Met Gln Thr Lys Gly Gly Gln Thr Trp Ala Arg Arg Ala Leu Leu Leu
  1              5              10              15
Gly Ile Leu Trp Ala Thr Ala His Leu Pro Leu Ser Gly Thr Ser Leu
      20              25              30
Pro Gln Arg Leu Pro Arg Ala Thr Gly Asn Ser Thr Gln Cys Val Ile
      35              40              45
Ser Pro Ser Ser Glu Phe Pro Glu Gly Phe Phe Thr Arg Gln Glu Arg
      50              55              60
Arg Asp Gly Gly Ile Ile Ile Tyr Phe Leu Ile Ile Val Tyr Met Phe
      65              70              75              80
Met Ala Ile Ser Ile Val Cys Asp Glu Tyr Phe Leu Pro Ser Leu Glu
      85              90              95
Ile Ile Ser Glu Tyr Ile Gly Asn Lys Lys Glu Met Gln Val Leu Ile
      100              105              110
Pro Gly Arg Ile Val Ser Lys Leu Lys Lys Leu Gly Phe Lys *
      115              120              125 126

```

```

<210> 1679

```

<211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1679
 Met Ile Phe Phe Ile Lys Ala Pro Leu Tyr Leu Leu Gln Ser Met Met
 1 5 10 15
 Asp Cys Leu Tyr Ala Arg Arg Ile Pro Cys Ile Thr Asp Cys Ala Met
 20 25 30
 Ala Glu Ile Glu Lys Leu Gly Gln Lys Tyr Pro Val Ala Leu Arg Ile
 35 40 45
 Ala
 49

<210> 1680
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1680
 Met Val Tyr Glu Val Phe Ile Asn Lys Ala Asn Ile Leu Leu Leu Leu
 1 5 10 15
 Phe Leu Arg Gln Ser Leu Ala Val Leu Pro Arg Leu Glu Cys Ser Gly
 20 25 30
 Ala Ile Ser Ala Arg Cys Asn Leu His Leu Arg Ile Pro Pro Asp Phe
 35 40 45
 His Arg Ser Thr Met Gly Gly Gly Gly Gly
 50 55 58

<210> 1681
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1681
 Met Leu Ser Gly Trp Val Gln Cys Pro Leu Leu Gln Arg Val His Phe
 1 5 10 15
 Tyr Ala Phe Ser Val Gly Pro Phe His Arg Lys Ile Trp Gly Asp Val
 20 25 30
 Ser Phe Pro Leu Thr Phe Tyr Phe Lys Asn Leu Gln Thr Gln Lys Ser
 35 40 45 48
 *

<210> 1682
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1682

```

Met Thr Gly Leu Phe Leu His His Asn Pro Gly Ile Leu Leu Ala Pro
 1          5          10          15
Ser Val Leu Asp Leu Leu Phe Pro Gly Ser His Ile Phe Ile Phe Ser
          20          25          30
Leu Phe Leu Ser Leu Cys Pro Cys Phe Gly Asp Thr Ile Leu Val Ala
          35          40          45
Pro Ser Asp Lys Val Tyr Lys Asp Thr Phe Ile Ile Lys Ile Tyr Pro
          50          55          60
Tyr Cys Ile Phe Glu Asn Phe Phe Thr Phe Leu Phe Thr *
65          70          75          77

```

<210> 1683

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1683

```

Met Ser Leu Gly Ser Ile Asn His Phe Leu Phe Phe Ile Gln Leu Leu
 1          5          10          15
Val Leu Lys Asn Ser Tyr Cys Met Leu Leu Lys Met Lys Gln Asn Lys
          20          25          30
Lys Leu Lys Lys Ile Met Cys Leu Leu Phe Leu Met Leu Ser Ser Tyr
          35          40          45
His Leu Ile *
          50  51

```

<210> 1684

<211> 165

<212> PRT

<213> Homo sapiens

<400> 1684

```

Met Pro Ala Pro Pro Leu Pro Gly Gly Trp Asn Thr Trp Gly Pro Ser
 1          5          10          15
Leu Ser Leu Pro Leu Leu Leu Leu Gly Ala Val Ala Met Ala Leu Gly
          20          25          30
Val Arg Pro Pro Gly Gln Val Gly Leu Ser Pro Ile Ala Thr Ala Ser
          35          40          45
Thr Val Gly Val Pro Arg Cys Leu Gln Thr Ala Phe Arg Gly Asp Ala
          50          55          60
Gly Trp His Ser Cys Ala Gln Gln Gly Ala Cys Val Ala Leu His Pro
          65          70          75          80
Ser Glu Arg Arg Leu Gly Ile Ser Asp Glu Ala His Ser Arg Ser Arg
          85          90          95
Trp Gly Gly Glu Asp Ser Pro Ser Pro Leu Thr Gly Pro Pro Leu Ser
          100          105          110
Pro Ser Pro Pro Asp Cys Leu Ser Leu Pro Arg Leu Thr Pro Leu Arg
          115          120          125
Leu Pro Pro Pro Pro Phe Pro Phe Leu Gly Pro Ile Pro Ser Leu Pro
          130          135          140
Pro Pro Pro Ser Pro Pro Pro Gln Pro Pro Ala Thr Ala Pro Pro Pro
145          150          155          160

```

Ser Leu Arg Phe *
164

<210> 1685
<211> 153
<212> PRT
<213> Homo sapiens

<400> 1685
Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu Leu Leu Phe
1 5 10 15
Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe Asp Arg Ala
20 25 30
Val Ala Ser Gly Cys Gln Arg Cys Cys Asp Ser Glu Asp Pro Leu Asp
35 40 45
Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro His Ala Leu
50 55 60
Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys Ala Gln Arg
65 70 75 80
Ala Gln His His Ala Glu Pro Glu Cys Asp Ala Gly Pro Gly Leu Arg
85 90 95
Gly Pro Arg Leu Gly Ala Ala Leu Gln Ala Pro Ala Arg Glu Arg His
100 105 110
Leu Gln Gln Arg Leu Arg His Leu His His Leu Gln Arg Pro Pro His
115 120 125
Gln Gly Arg Gly Arg Leu Arg Ala Ser Gly Pro Pro Ser Arg Leu Glu
130 135 140
Ser Ser Ala Asp Pro Ala Pro Ala *
145 150 152

<210> 1686
<211> 141
<212> PRT
<213> Homo sapiens

<400> 1686
Met Arg Arg Thr Ala Phe Ile Leu Gly Ser Gly Leu Leu Ser Phe Val
1 5 10 15
Ala Phe Trp Asn Ser Val Thr Trp His Leu Gln Arg Phe Trp Gly Ala
20 25 30
Ser Gly Tyr Phe Trp Gln Ala Gln Trp Glu Arg Leu Leu Thr Thr Phe
35 40 45
Glu Gly Lys Glu Trp Ile Leu Phe Phe Ile Gly Ala Ile Gln Val Pro
50 55 60
Cys Leu Phe Phe Trp Ser Phe Asn Gly Leu Leu Leu Val Val Asp Thr
65 70 75 80
Thr Gly Lys Pro Asn Phe Ile Ser Arg Tyr Arg Ile Gln Val Gly Lys
85 90 95
Asn Glu Pro Val Asp Pro Val Lys Leu Arg Gln Ser Ile Arg Thr Val
100 105 110
Leu Phe Asn Gln Cys Met Ile Ser Phe Pro Met Gly Gly Leu Pro Leu
115 120 125
Ser Leu Pro Gln Met Val Glu Arg Pro Leu Thr Pro *

130

135

140

<210> 1687
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1687
 Met Leu Thr Glu Leu Leu Leu Leu Cys Val Leu Val Leu Cys Val Phe
 1 5 10 15
 Met Ser Arg Gly Ser Cys Leu Phe Ala Thr Ile Arg Glu Phe Trp Pro
 20 25 30
 Pro Trp Val Gly Cys Gly Arg Gly Glu Asn Pro Ser Val Gly Thr Val
 35 40 45
 Asp Pro Ser Cys Arg Leu Cys Ala Pro Gly His Val *
 50 55 60

<210> 1688
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1688
 Met Val Ala Ala Thr Pro Pro Gly Ile Ala Arg Trp Ala Leu Val Ile
 1 5 10 15
 Ser Phe Pro Pro Val Thr Pro Thr Ala Pro His Met Cys Ala Ala Gln
 20 25 30
 Pro Trp Gly Arg His Gly Ser Ala Glu Gly Thr Thr Gln Leu Pro Ala
 35 40 45
 Pro Arg Ser Ser Pro Ser Cys Gln Ser Trp Asp Lys Leu Leu Leu Leu
 50 55 60
 Leu Leu Glu *
 65 67

<210> 1689
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1689
 Met Ala Ala Thr Met Val Ser Ile Ala Ser Phe Arg Leu Phe Leu Met
 1 5 10 15
 Ser Cys Thr Leu Val Ala Phe Ser Pro Ser Leu Leu Leu Leu Ala Ala
 20 25 30
 Cys Gly Ser Ser Ser Pro Pro Ser Pro Leu Asn Pro Leu Thr Cys Arg
 35 40 45
 Ile Leu Ile Cys Phe Thr Met Val Leu Leu Pro Asp Ser Pro Ala Pro
 50 55 60
 Ser Ser Ser Arg Arg Cys Val Ala Arg *
 65 70 73

<210> 1690
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1690
 Met His Met Cys Ala Phe Leu His Val Trp Thr Cys Ala Cys Met His
 1 5 10 15
 Leu Cys Val Cys Val Cys Ala Glu Thr Gly Lys Gly Val Lys Val Leu
 20 25 30
 Val Arg Glu Pro Gly Ser Phe Leu Phe Pro Asn Leu Ser Cys Ser Lys
 35 40 45
 Glu Gly Trp Gly Trp Gly Gln Pro Leu Leu Lys Val Ile Gly Glu Glu
 50 55 60
 Arg Phe Ser Asp Ser Glu Val Thr Ala Ser Val Ala Gln Ala Val Ser
 65 70 75 80
 Leu Val Thr Val Ile Leu Gln Phe Ser Asp Pro His Val Ser Phe Arg
 85 90 95
 Gly Lys Arg Lys Lys Gly Thr Leu Trp Trp Val Leu Gly Gly Lys Arg
 100 105 110
 Lys *
 113

<210> 1691
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1691
 Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys
 1 5 10 15
 His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys
 20 25 30
 Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile
 35 40 45
 Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp
 50 55 60
 Leu Met Pro Val Ser
 65 69

<210> 1692
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 1692
 Met Leu Gly Pro Thr Val Phe Asn Ile Lys Phe Val Phe Leu Ile Thr
 1 5 10 15
 Ala Leu Gly Ala Leu Pro Ser Ser Leu Pro His Ala His Ser Ala Ala

```

      20      25      30
Trp Thr Leu Leu Pro Gly Pro Pro Ala Gln Gln His Ser Thr Arg Leu
      35      40      45
Trp Thr Phe Ser Asn Met Ala Gly Val Glu Leu Cys Pro Gly Pro Gln
      50      55      60
Pro Ala Gly Pro Ala Ala Pro Val Gly Arg Thr Pro Pro Val Leu Ser
      65      70      75      80
Ala Phe Thr Thr Thr Ser Ser Phe Gly Ser Gly Cys Gly Val Thr Ser
      85      90      95
Ser Arg Glu Leu Pro Arg Arg
      100      103

```

<210> 1693
 <211> 48
 <212> PRT
 <213> Homo sapiens

```

      <400> 1693
Met Gly Arg Phe Leu Asp Glu Gln Trp Val Tyr Phe Ile Ile Leu Leu
      1      5      10      15
Leu Leu Phe Phe Phe Arg Asp Ser Leu Ala Leu Ser Pro Arg Leu Glu
      20      25      30
Cys Ser Gly Ala Ile Ser Val His Ser Lys Leu Arg Leu Pro Gly Ser
      35      40      45      48

```

<210> 1694
 <211> 92
 <212> PRT
 <213> Homo sapiens

```

      <400> 1694
Met Ile Phe Ala Cys Glu Cys Val Leu Arg Leu Leu Leu Ile Leu Asn
      1      5      10      15
Val Ser Phe Leu Gly Ala Val Ser Glu Glu Thr Thr Asn Ala Leu Glu
      20      25      30
Thr Trp Gly Ala Leu Arg Gln Asp Ile Asn Leu Asp Ile Pro Ser Phe
      35      40      45
Leu Leu Arg Glu His Ile Asp Glu Leu Ile Cys Asp Lys Thr Leu Asp
      50      55      60
Ser Lys Lys Ile Ala His Phe Arg Ala Glu Lys Glu Thr Phe Ser Glu
      65      70      75      80
Lys Asp Thr Tyr Cys Tyr Leu Lys Met Glu Leu *
      85      90      91

```

<210> 1695
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1695

```

Met Ala Val Gln Gln Gln Phe Ile Ile Val Val Leu Arg Leu Val Phe
 1          5          10          15
Pro Val Ala Gly Thr Thr Arg Ala Pro Leu His Trp Val Gly Ala Ile
          20          25          30
Pro Gly Trp Glu Trp Pro Pro Gly Asp Asp Ala Tyr Pro Ser Leu Leu
          35          40          45
Ala Pro Ser Gln His Pro Tyr Ser Gly Glu Ala Leu Cys Leu Leu Leu
          50          55          60
Leu Pro Ser Ile Val Leu Leu Glu Ser Cys Arg Lys Val Met Glu Arg
          65          70          75          80
Gly Leu *
          82

```

<210> 1696

<211> 159

<212> PRT

<213> Homo sapiens

<400> 1696

```

Met Leu Trp Leu Phe Gln Ser Leu Leu Phe Val Phe Cys Phe Gly Pro
 1          5          10          15
Gly Asn Val Val Ser Gln Ser Ser Leu Thr Pro Leu Met Val Asn Gly
          20          25          30
Ile Leu Gly Glu Ser Val Thr Leu Pro Leu Glu Phe Pro Ala Gly Glu
          35          40          45
Lys Val Asn Phe Ile Thr Trp Leu Phe Asn Glu Thr Ser Leu Ala Phe
          50          55          60
Ile Val Pro His Glu Thr Lys Ser Pro Glu Ile His Val Thr Asn Pro
          65          70          75          80
Lys Gln Gly Lys Arg Leu Asn Phe Thr Gln Ser Tyr Ser Leu Gln Leu
          85          90          95
Ser Asn Leu Lys Met Glu Asp Thr Gly Ser Tyr Arg Ala Gln Ile Ser
          100          105          110
Thr Lys Thr Ser Ala Lys Leu Ser Ser Tyr Thr Leu Arg Ile Leu Thr
          115          120          125
Leu Tyr Pro Ile Val Gly Asn Gly Ile Trp Gly Asn Lys Asn Phe Leu
          130          135          140
Thr Thr Leu Ala Arg Gly Asn Val Lys Leu Asp Gly Leu His Glu
          145          150          155          159

```

<210> 1697

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1697

```

Met Glu Pro Arg Leu Phe Cys Trp Thr Thr Leu Phe Leu Leu Ala Gly
 1          5          10          15
Trp Cys Leu Pro Gly Leu Pro Cys Pro Ser Arg Cys Leu Cys Phe Lys
          20          25          30
Ser Thr Val Arg Cys Met His Leu Met Leu Asp His Ile Pro Gln Val

```



```

          35          40          45
Pro Gln Gln Thr Thr Val Leu Asp Leu Arg Phe Asn Arg Ile Arg Glu
   50          55          60
Ile Pro Gly Ser Ala Phe Lys Lys Leu Lys Asn Leu Asn Thr Leu Tyr
   65          70          75          80
Leu Tyr Lys Asn Glu Ile His Ala Leu Asp Lys Gln Thr Phe Lys Gly
          85          90          95
Leu Ile Ser Leu Glu His Leu Tyr Ile
          100          105

```

<210> 1698
 <211> 195
 <212> PRT
 <213> Homo sapiens

```

    <400> 1698
Met Pro Ser Trp Ile Gly Ala Val Ile Leu Pro Leu Leu Gly Leu Leu
  1          5          10          15
Leu Ser Leu Pro Ala Gly Ala Asp Val Lys Ala Arg Ser Cys Gly Glu
          20          25          30
Val Arg Gln Ala Tyr Gly Ala Lys Gly Phe Ser Leu Ala Asp Ile Pro
          35          40          45
Tyr Gln Glu Ile Ala Gly Glu His Leu Arg Ile Cys Pro Gln Glu Tyr
          50          55          60
Thr Cys Cys Thr Thr Glu Met Glu Asp Lys Leu Ser Gln Gln Ser Lys
          65          70          75          80
Leu Glu Phe Glu Asn Leu Val Glu Glu Thr Ser His Phe Val Arg Thr
          85          90          95
Thr Phe Val Ser Arg His Lys Lys Phe Asp Glu Phe Phe Arg Glu Leu
          100          105          110
Leu Glu Asn Ala Glu Lys Ser Leu Asn Asp Met Phe Val Arg Thr Tyr
          115          120          125
Gly Met Leu Tyr Met Gln Asn Ser Glu Val Phe Gln Asp Leu Phe Thr
          130          135          140
Glu Leu Lys Arg Tyr Tyr Thr Gly Gly Asn Val Asn Leu Glu Glu Met
          145          150          155          160
Leu Asn Asp Phe Trp Ala Arg Leu Leu Glu Arg Met Phe Gln Leu Ile
          165          170          175
Asn Pro Gln Tyr Pro Phe Ser Glu Gly Phe Leu Gly Met Cys Glu Gln
          180          185          190
Ile Pro *
          194

```

<210> 1699
 <211> 97
 <212> PRT
 <213> Homo sapiens

```

    <400> 1699
Met Asp Ser Pro Trp Ala Gly Leu Leu Trp Leu Leu Pro Thr Leu Trp
  1          5          10          15
Ser Ser Phe Pro Ala Pro Ala Cys Trp Pro Ser Ser Ser Ser Ser Ser
          20          25          30

```

```

Pro Val Cys Ala Ala Asn Gly Ala Met Ser Ala Ser Arg Asn Leu Arg
      35              40              45
Thr Leu Lys Gly Arg Thr Ala Pro Gly Ser Thr Leu Pro Leu Arg Arg
      50              55              60
Arg Pro Pro Pro His Ser Arg Cys Leu Met Ser Thr Phe Ser Arg Trp
      65              70              75              80
Leu Arg Ser Pro Cys Gln Cys Leu Pro Arg Ser Leu His Thr Gln Thr
      85              90              95  96

```

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<210> 1700
<211> 129
<212> PRT
<213> Homo sapiens

```

```

<400> 1700
Met Gly Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys Thr Gly
  1              5              10              15
Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Glu Ser Glu Ala
      20              25              30
Pro Gly Gln Trp Val Asn Ile Ser Cys Thr Gly Ser Gly Ser Asn Leu
      35              40              45
Gly Ala Gly Phe Asp Val Gln Trp Tyr Gln Leu Ile Pro Gly Thr Ala
      50              55              60
Pro Lys Leu Leu Ile Phe Asn Asn Asn Arg Gln Pro Ser Gly Val Pro
      65              70              75              80
Asp Arg Phe Ser Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile
      85              90              95
Asn Asp Leu Gln Pro Glu Asp Glu Ser Glu Tyr Tyr Cys Leu Ala Met
      100              105              110
Thr Ala Ala Ser Leu Val Ser Ser Glu Leu Gly Pro Lys Ser Pro Ala
      115              120              125              128

```

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<210> 1701
<211> 219
<212> PRT
<213> Homo sapiens

```

```

<400> 1701
Met Arg Thr His Thr Arg Gly Ala Pro Ser Val Phe Phe Ile Tyr Leu
  1              5              10              15
Leu Cys Phe Val Ser Ala Tyr Ile Thr Asp Glu Asn Pro Glu Val Met
      20              25              30
Ile Pro Phe Thr Asn Ala Asn Tyr Asp Ser His Pro Met Leu Tyr Phe
      35              40              45
Ser Arg Ala Glu Val Ala Glu Leu Gln Leu Arg Ala Ala Ser Ser His
      50              55              60
Glu His Ile Ala Ala Arg Leu Thr Glu Ala Val His Thr Met Leu Ser
      65              70              75              80
Ser Pro Leu Glu Tyr Leu Pro Pro Trp Asp Pro Lys Asp Tyr Ser Ala

```

				85					90					95			
Arg	Trp	Asn	Glu	Ile	Phe	Gly	Asn	Asn	Leu	Gly	Ala	Leu	Ala	Met	Phe		
			100					105					110				
Cys	Val	Leu	Tyr	Pro	Glu	Asn	Ile	Glu	Ala	Arg	Asp	Met	Ala	Lys	Asp		
		115					120					125					
Tyr	Met	Glu	Arg	Met	Ala	Ala	Gln	Pro	Ser	Trp	Leu	Val	Lys	Asp	Ala		
	130					135					140						
Pro	Trp	Asp	Glu	Val	Pro	Leu	Ala	His	Ser	Leu	Val	Gly	Phe	Ala	Thr		
145				150						155					160		
Ala	Tyr	Asp	Phe	Leu	Tyr	Asn	His	Leu	Ser	Lys	Thr	Gln	Gln	Glu	Lys		
			165					170						175			
Phe	Leu	Glu	Val	Ile	Ala	Asn	Ala	Ser	Gly	Tyr	Met	Phe	Val	Thr	Leu		
		180						185					190				
Ile	Leu	Gly	Ala	Asp	Gly	Asp	Ser	Asn	Thr	Cys	Thr	Ile	Ile	Ser	Pro		
	195					200						205					
Pro	Thr	Val	Trp	Leu	Cys	Ser	Arg	Glu	Ala	*							
	210					215			218								

<210> 1702
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 1702

Met	Glu	Gln	Leu	Leu	Gly	Ile	Lys	Leu	Gly	Cys	Leu	Phe	Ala	Leu	Leu		
1				5					10					15			
Ala	Leu	Thr	Leu	Gly	Cys	Gly	Leu	Thr	Pro	Ile	Cys	Phe	Lys	Trp	Phe		
		20						25					30				
Gln	Ile	Asp	Ala	Ala	Arg	Gly	His	His	Arg	Leu	Val	Leu	Arg	Leu	Leu		
		35				40						45					
Gly	Cys	Ile	Ser	Ala	Gly	Val	Phe	Leu	Gly	Ala	Gly	Phe	Met	His	Met		
	50					55					60						
Thr	Ala	Glu	Ala	Leu	Glu	Glu	Ile	Glu	Ser	Gln	Ile	Gln	Lys	Phe	Met		
65					70					75					80		
Val	Gln	Ile	Ser	Lys	*												
				85													

<210> 1703
 <211> 229
 <212> PRT
 <213> Homo sapiens

<400> 1703

Met	Leu	Ser	Met	Leu	Arg	Thr	Met	Thr	Arg	Leu	Cys	Phe	Leu	Leu	Phe		
1				5					10					15			
Phe	Ser	Val	Ala	Thr	Ser	Gly	Cys	Ser	Ala	Ala	Ala	Ala	Ser	Ser	Leu		
		20						25					30				
Glu	Met	Leu	Ser	Arg	Glu	Phe	Glu	Thr	Cys	Ala	Phe	Ser	Phe	Ser	Ser		
		35				40						45					
Leu	Pro	Arg	Ser	Cys	Lys	Glu	Ile	Lys	Glu	Arg	Cys	His	Ser	Ala	Gly		
	50					55					60						
Asp	Gly	Leu	Tyr	Phe	Leu	Arg	Thr	Lys	Asn	Gly	Val	Val	Tyr	Gln	Thr		
65					70					75					80		

```

Phe Cys Asp Met Thr Ser Gly Gly Gly Gly Trp Thr Leu Val Ala Ser
      85                      90                      95
Val His Glu Asn Asp Met His Gly Lys Cys Thr Val Gly Asp Arg Trp
      100                      105                      110
Ser Ser Gln Gln Gly Asn Lys Ala Asp Tyr Pro Glu Gly Asp Gly Asn
      115                      120                      125
Trp Ala Asn Tyr Asn Thr Phe Gly Ser Ala Glu Ala Ala Thr Ser Asp
      130                      135                      140
Asp Tyr Lys Asn Pro Gly Tyr Tyr Asp Ile Gln Ala Lys Asp Leu Gly
145                      150                      155                      160
Ile Trp His Val Pro Asn Lys Ser Pro Met Gln His Trp Arg Asn Ser
      165                      170                      175
Ala Leu Leu Arg Tyr Arg Thr Asn Thr Gly Phe Leu Gln Arg Leu Gly
      180                      185                      190
His Asn Leu Phe Gly Ile Tyr Gln Lys Tyr Pro Val Lys Tyr Arg Ser
      195                      200                      205
Gly Lys Cys Trp Asn Asp Asn Gly Pro Ala Ile Pro Trp Val Tyr Asp
210                      215                      220
Phe Gly Glu Ala *
225                      228

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<210> 1704
<211> 202
<212> PRT
<213> Homo sapiens

```

```

<400> 1704
Met Val Phe Pro Val Met Tyr Asn Leu Ile Ile Leu Val Cys Arg Ala
 1      5                      10                      15
Cys Phe Pro Asp Leu Gln His Gly Tyr Leu Val Ala Trp Leu Val Leu
      20                      25                      30
Asp Tyr Thr Ser Asp Leu Leu Tyr Leu Leu Asp Met Val Val Arg Phe
      35                      40                      45
His Thr Gly Phe Leu Glu Gln Gly Ile Leu Val Val Asp Lys Gly Arg
      50                      55                      60
Ile Ser Ser Arg Tyr Val Arg Thr Trp Ser Phe Phe Leu Asp Leu Ala
65      70                      75                      80
Ser Leu Met Pro Thr Asp Val Val Tyr Val Arg Leu Gly Pro His Thr
      85                      90                      95
Pro Thr Leu Arg Leu Asn Arg Phe Leu Arg Ala Pro Arg Leu Phe Glu
      100                      105                      110
Ala Phe Asp Arg Thr Glu Thr Arg Thr Ala Tyr Pro Asn Ala Phe Cys
      115                      120                      125
Ile Gly Lys Leu Met Leu Tyr Ile Phe Gly Arg Ile His Trp Asn Asn
130      135                      140
Cys Leu Tyr Phe Ser Leu Ser Arg Tyr Leu Gly Phe Gly Arg Glu Pro
145      150                      155                      160
Met Gly Val Pro Arg Thr Pro Ala Pro Thr Trp Val Leu Thr Ala Arg
      165                      170                      175
Gly Gly Pro Val Thr Ser Tyr Lys Leu Phe Asn Phe Phe His Pro Leu
180      185                      190
Asp Thr Trp Ile Ile Gln Gly Gly Glu *
195                      200 201

```

<210> 1705
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1705
 Met Gly Leu Leu Gly Val Leu Trp Asn Thr Thr Leu His Met Cys Arg
 1 5 10 15
 Met Arg Leu Gln Asp Thr Gly Gln Lys Ile Arg Thr Gly Ser Cys Glu
 20 25 30
 Leu His Gly Ser Gln Ser Ser His Ser Thr Gly Asn Leu Arg Val Leu
 35 40 45
 Pro Ser His Asn Gly Glu Thr Leu His *
 50 55 57

<210> 1706
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1706
 Met Gly Asp Tyr Arg Asn Val Arg Leu Leu Gly Ser Phe Ser Phe Ile
 1 5 10 15
 Ser Val Thr Ile Ser Arg Val Ile Phe Leu Leu Ser Leu Leu Gln Pro
 20 25 30
 Ser Gly Val Gly Ile Leu Phe Ala Asp Ser Gly Gly Thr Gly Tyr Thr
 35 40 45
 His His Cys Leu Trp Val *
 50 54

<210> 1707
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1707
 Met Leu Glu Cys Ala Phe Ile Val Leu Trp Leu Gln Leu Gly Trp Leu
 1 5 10 15
 Ser Gly Glu Asp Gln Val Thr Gln Ser Pro Glu Ala Leu Arg Leu Gln
 20 25 30
 Glu Gly Glu Ser Ser Ser Leu Asn Cys Ser Tyr Thr Val Ser Gly Leu
 35 40 45
 Arg Gly Leu Phe Trp Tyr Arg Gln Asp Pro Gly Lys Gly Pro Glu Phe
 50 55 60
 Leu Phe Thr Leu Tyr Ser Ala Gly Glu Glu Lys Glu Lys Glu Arg Leu
 65 70 75 80
 Lys Ala Thr Leu Thr Lys Lys Glu Ser Phe Leu His Ile Thr Ala Pro
 85 90 95
 Lys Pro Glu Asp Ser Ala Thr Tyr Leu Cys Ala Val Gln Ala Gln Phe
 100 105 110
 His Ser Gly Gly Gly Ala Asp Gly Leu Thr Phe Gly Lys Gly Thr Arg
 115 120 125

Leu Lys Val Leu Ala Leu Tyr Pro Glu Pro *
 130 135 138

<210> 1708
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1708
 Met Gly Pro Arg Phe Val Ser Thr Leu Pro Phe Ser Pro Ser Ala Ala
 1 5 10 15
 Trp Cys Ala Cys Glu Ala Gly Gly Gly Leu Arg Arg Glu Val Ala His
 20 25 30
 Ala Gln Arg Ala Ala Ser Thr Ala Pro Thr Ala His Met Gln Asn Ser
 35 40 45
 Thr Leu Ile Gly Leu Asn Leu Ser Arg Gly *
 50 55 58

<210> 1709
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1709
 Met Arg Leu Pro Trp Glu Leu Leu Val Leu Gln Ser Phe Ile Leu Cys
 1 5 10 15
 Leu Ala Asp Asp Ser Thr Leu His Gly Pro Ile Phe Ile Gln Glu Pro
 20 25 30
 Ser Pro Val Met Phe Pro Leu Asp Ser Glu Glu Lys Lys Ala Lys Leu
 35 40 45
 Asn Cys Glu Asp Lys Gly Asp Pro Lys Pro His Ile Arg Trp Lys Leu
 50 55 60
 Asn Gly Ala Asp Ala Asp Thr Gly Met Glu Phe Leu Leu Gln Arg Cys
 65 70 75 80
 *

<210> 1710
 <211> 399
 <212> PRT
 <213> Homo sapiens

<400> 1710
 Met Leu Arg Leu Tyr Val Leu Val Met Gly Val Ser Ala Phe Thr Leu
 1 5 10 15
 Gln Pro Ala Ala His Thr Gly Ala Ala Arg Ser Cys Arg Phe Arg Gly
 20 25 30
 Arg His Tyr Lys Arg Glu Phe Arg Leu Glu Gly Glu Pro Val Ala Leu
 35 40 45
 Arg Cys Pro Gln Val Pro Tyr Trp Leu Trp Ala Ser Val Ser Pro Arg

50	55	60																	
Ile Asn Leu Thr Trp His Lys Asn Asp Ser Ala Arg Thr Val Pro Gly																			
65	70	75																	80
Glu Glu Glu Thr Arg Met Trp Ala Gln Asp Gly Ala Leu Trp Leu Leu																			
	85	90																	95
Pro Ala Leu Gln Glu Asp Ser Gly Thr Tyr Val Cys Thr Thr Arg Asn																			
	100	105																	110
Ala Ser Tyr Cys Asp Lys Met Ser Ile Glu Leu Arg Val Phe Glu Asn																			
	115	120																	125
Thr Asp Ala Phe Leu Pro Phe Ile Ser Tyr Pro Gln Ile Leu Thr Leu																			
	130	135																	140
Ser Thr Ser Gly Val Leu Val Cys Pro Asp Leu Ser Glu Phe Thr Arg																			
145	150	155																	160
Asp Lys Thr Asp Val Lys Ile Gln Trp Tyr Lys Asp Ser Leu Leu Leu																			
	165	170																	175
Asp Lys Asp Asn Glu Lys Phe Leu Ser Val Arg Gly Thr Thr His Leu																			
	180	185																	190
Leu Val His Asp Val Ala Leu Glu Asp Ala Gly Tyr Tyr Arg Cys Val																			
	195	200																	205
Leu Thr Phe Ala His Glu Gly Gln Gln Tyr Asn Ile Thr Arg Ser Ile																			
	210	215																	220
Glu Leu Arg Ile Lys Lys Lys Lys Glu Glu Thr Ile Pro Val Ile Ile																			
225	230	235																	240
Ser Pro Leu Lys Thr Ile Ser Ala Ser Leu Gly Ser Arg Leu Thr Ile																			
	245	250																	255
Pro Cys Lys Val Phe Leu Gly Thr Gly Thr Pro Leu Thr Thr Met Leu																			
	260	265																	270
Trp Trp Thr Ala Asn Asp Thr His Ile Glu Ser Ala Tyr Pro Gly Gly																			
	275	280																	285
Arg Val Thr Glu Gly Pro Arg Gln Glu Tyr Ser Glu Asn Asn Glu Asn																			
	290	295																	300
Tyr Ile Glu Val Pro Leu Ile Phe Asp Pro Val Thr Arg Glu Asp Leu																			
305	310	315																	320
His Met Asp Phe Lys Cys Val Val His Asn Thr Leu Ser Phe Gln Thr																			
	325	330																	335
Leu Arg Thr Thr Val Lys Glu Ala Ser Ser Thr Phe Ser Trp Gly Ile																			
	340	345																	350
Val Leu Ala Pro Leu Ser Leu Ala Phe Leu Val Leu Gly Gly Ile Trp																			
	355	360																	365
Met His Arg Arg Cys Lys His Arg Thr Gly Lys Ala Asp Gly Leu Thr																			
	370	375																	380
Val Leu Trp Pro His His Gln Asp Phe Gln Ser Tyr Pro Lys *																			
385	390	395																	398

<210> 1711

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1711

Met Ala Met Gly Val Pro Arg Val Ile Leu Leu Cys Leu Phe Gly Ala																			
1	5	10																	15
Ala Leu Cys Leu Thr Gly Ser Gln Ala Leu Gln Cys Tyr Ser Phe Glu																			
	20	25																	30
His Thr Tyr Phe Gly Pro Phe Asp Leu Arg Ala Met Lys Leu Pro Ser																			
	35	40																	45

```

Ile Ser Cys Pro His Glu Cys Phe Glu Ala Ile Leu Ser Leu Asp Thr
  50          55          60
Gly Tyr Arg Ala Pro Val Thr Leu Val Arg Lys Gly Cys Trp Thr Gly
  65          70          75          80
Pro Pro Ala Gly Gln Thr Gln Ser Asn Ala Asp Ala Leu Pro Pro Asp
          85          90          95
Tyr Ser Val Val Arg Gly Cys Thr Thr Asp Lys Cys Asn Ala His Leu
          100          105          110
Met Thr His Asp Ala Leu Pro Asn Leu Ser Gln Ala Pro Asp Pro Pro
          115          120          125
Thr Leu Ser Gly Leu Glu Cys Tyr Ala Cys Ile Gly Val His Gln Asp
          130          135          140
Asp Cys Ala Ile Gly Arg Ser Arg Arg Val Gln Cys His Gln Asp Gln
          145          150          155          160
Thr Ala Cys Phe Gln Gly Asn Gly Arg Met Thr Val Gly Asn Phe Ser
          165          170          175
Val Pro Val Tyr Ile Arg Thr Cys His Arg Ala Leu Leu His His Leu
          180          185          190
Met Gly Thr Thr Ser Pro Trp Thr Ala Ile Gly Pro Pro Arg Gly Ser
          195          200          205
Cys Cys Glu Gly Tyr Leu Cys Asn Arg Lys Ser Met Thr Gln Pro Phe
          210          215          220
Thr Ser Ala Ser Ala Thr Thr Pro Pro Arg Ala Leu Gln Val Leu Ala
          225          230          235          240
Leu Leu Leu Pro Val Leu Leu Leu Val Gly Leu Ser Ala *
          245          250          253

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<210> 1712
<211> 124
<212> PRT
<213> Homo sapiens

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<400> 1712
Met Thr Trp Leu Leu Val Ala Tyr Ala Asp Phe Val Val Thr Phe Val
  1          5          10          15
Met Leu Leu Pro Ser Lys Asp Phe Trp Tyr Ser Val Val Asn Gly Val
          20          25          30
Ile Phe Asn Cys Leu Ala Val Leu Ala Leu Ser Ser His Leu Arg Thr
          35          40          45
Met Leu Thr Asp Pro Glu Lys Ser Ser Asp Cys Arg Pro Ser Ala Cys
          50          55          60
Thr Val Lys Thr Gly Leu Asp Pro Thr Leu Val Gly Ile Cys Gly Glu
          65          70          75          80
Gly Thr Glu Ser Val Gln Ser Leu Leu Leu Gly Ala Val Pro Lys Gly
          85          90          95
Asn Ala Thr Lys Glu Tyr Met Asp Glu Leu Ala Ala Glu Ala Arg Gly
          100          105          110
Ser His Leu Gln Val Pro Gln Val Leu Leu Tyr *
          115          120          123

```

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<210> 1713
<211> 214
<212> PRT
<213> Homo sapiens

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<400> 1713

Met	Leu	His	Leu	Val	Phe	Ile	Leu	Pro	Ser	Leu	Met	Leu	Leu	Ile	Pro
1				5					10					15	
His	Ile	Leu	Leu	Glu	Asn	Phe	Ala	Ala	Ala	Ile	Pro	Gly	His	Arg	Cys
			20					25					30		
Trp	Val	His	Met	Leu	Asp	Asn	Asn	Thr	Gly	Ser	Gly	Asn	Glu	Thr	Gly
		35					40					45			
Ile	Leu	Ser	Glu	Asp	Ala	Leu	Leu	Arg	Ile	Ser	Ile	Pro	Leu	Asp	Ser
	50					55					60				
Asn	Leu	Arg	Pro	Glu	Lys	Cys	Arg	Arg	Phe	Val	His	Pro	Gln	Trp	Gln
65					70					75					80
Leu	Leu	His	Leu	Asn	Gly	Thr	Ile	His	Ser	Thr	Ser	Glu	Ala	Asp	Thr
				85					90					95	
Glu	Pro	Cys	Val	Asp	Gly	Trp	Val	Tyr	Asp	Gln	Ser	Tyr	Phe	Pro	Ser
			100					105					110		
Thr	Ile	Val	Thr	Lys	Trp	Asp	Leu	Val	Cys	Asp	Tyr	Gln	Ser	Leu	Lys
		115					120					125			
Ser	Val	Val	Gln	Phe	Leu	Leu	Leu	Thr	Gly	Met	Leu	Val	Gly	Gly	Ile
	130					135					140				
Ile	Gly	Gly	His	Val	Ser	Asp	Arg	Trp	Leu	Val	Glu	Ser	Ala	Arg	Trp
145					150					155					160
Leu	Ile	Ile	Thr	Asn	Lys	Leu	Asp	Glu	Gly	Leu	Lys	Ala	Leu	Arg	Lys
				165					170					175	
Val	Ala	Arg	Thr	Asn	Gly	Ile	Lys	Asn	Ala	Glu	Arg	Asn	Pro	Glu	His
			180					185					190		
Arg	Gly	Cys	Lys	Ile	His	His	Ala	Gly	Gly	Ala	Gly	Cys	Ser	Thr	Asp
		195					200					205			
Gln	Asn	Tyr	Cys	Val	*										
	210				213										

<210> 1714
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 1714

Met	Ala	Ala	Ser	Trp	Ser	Leu	Leu	Val	Thr	Leu	Arg	Pro	Leu	Ala	Gln
1				5					10					15	
Ser	Pro	Leu	Arg	Gly	Arg	Cys	Val	Gly	Cys	Gly	Ala	Trp	Ala	Ala	Ala
			20					25					30		
Leu	Ala	Pro	Leu	Ala	Thr	Ala	Pro	Gly	Lys	Pro	Phe	Trp	Lys	Ala	Tyr
		35					40					45			
Thr	Val	Gln	Thr	Ser	Glu	Ser	Met	Thr	Pro	Thr	Ala	Thr	Ser	Glu	Thr
	50					55					60				
Tyr	Leu	Lys	Ala	Leu	Ala	Val	Cys	His	Gly	Pro	Leu	Asp	His	Tyr	Asp
65					70					75					80
Phe	Leu	Ile	Lys	Ala	His	Glu	Leu	Lys	Asp	Asp	Glu	His	Gln	Arg	Arg
				85					90				95		
Val	Ile	Gln	Cys	Leu	Gln	Lys	Leu	His	Glu	Asp	Leu	Lys	Gly	Tyr	Asn
			100					105					110		
Ile	Glu	Ala	Glu	Gly	Leu	Phe	Phe	Lys	Ala	Phe	Phe	Lys	Glu	Gln	Thr
	115						120					125			
Ser	Lys	Gly	Pro	Val	Cys	Leu	Trp	Arg	Cys	Trp	Tyr	Arg	Lys	Asn	Asn
	130						135					140			

Gly Asp Gly His Val Leu Cys Leu Cys Gly Asn Glu Glu Glu Lys Thr
 145 150 155 160
 Gly Ser Phe Ser Trp Phe His Ala Arg Cys Ala Gln Lys Asn Thr Ser
 165 170 175
 Pro *
 177

<210> 1715
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1715
 Met Arg Val Thr Ala Pro Arg Thr Val Leu Leu Leu Leu Trp Gly Ala
 1 5 10 15
 Val Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Lys Tyr Phe
 20 25 30
 Tyr Thr Ala Met Ser Arg Ala Gly Arg Gly Glu Pro Arg Phe Ile Ala
 35 40 45
 Glu Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
 50 55 60
 Ala Ser Pro Lys Thr Asp Pro Gly Arg His Gly *
 65 70 75

<210> 1716
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1716
 Met Arg Phe Thr Phe Pro Leu Met Ala Ile Val Leu Glu Ile Ala Met
 1 5 10 15
 Ile Ala Ser Phe Gly Leu Phe Val Glu Tyr Glu Thr Asp His Thr Val
 20 25 30
 Leu Glu His Phe Asn Ile Thr Lys Pro Ser Asp Met Gly Ile Phe Phe
 35 40 45
 Glu Leu Tyr Pro Leu Phe Gln Asp Val His Gly Met Ile Phe Val Gly
 50 55 60
 Phe Asp Phe Pro Pro Asp Leu Pro Glu Glu Leu Trp Val Ser Gln Arg
 65 70 75 80
 Gly Tyr *
 82

<210> 1717
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1717
 Met Ala Leu Phe Phe Leu Ala Leu Asn Phe Trp Lys Val Gly Met Ala

```

      1           5           10           15
Cys Tyr Val Arg Thr Ser Ser Trp Asn Ser Leu Leu Phe Phe Ser Gln
      20           25           30
Pro Tyr Phe Leu Gly Ser Cys Phe Glu Gln Tyr Leu Ser Asn Val Cys
      35           40           45
Leu Pro Asp Val Val Pro Asp Ala *
      50           55 56

```

<210> 1718
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

      <400> 1718
Met Tyr Leu Gly Leu Phe Leu Asp Phe Tyr Ser Val Ser Phe Cys Gly
      1           5           10           15
Cys Leu His Met Leu Gln Pro Gln Cys Phe Asn Tyr Phe Asn Ser Lys
      20           25           30
Asp Gln Ser Arg Phe His Cys Leu Lys His Cys Ser Asp His Leu Ile
      35           40           45
Phe Leu Leu Ser Glu Leu Arg Ser Asn Met Phe Ser Ser Phe Leu Ile
      50           55           60
Leu Ser Ile Phe Tyr Asp Tyr Cys Ile Asn Leu *
      65           70           75

```

<210> 1719
 <211> 71
 <212> PRT
 <213> Homo sapiens

```

      <400> 1719
Met Lys Ile Phe Phe His Ile Phe Phe His Lys Cys Leu Phe Thr Tyr
      1           5           10           15
Arg Leu Phe Ile Thr Leu Ala Leu Ile Leu Trp Tyr Ser Asp Ile Glu
      20           25           30
Glu Ser Thr Phe Pro Pro Leu Met Arg Tyr Cys Pro Asn Thr Val Leu
      35           40           45
His Lys Ser Phe Phe Gln Met Ser Ala Phe Ile Thr Tyr Gln Phe Ser
      50           55           60
Leu Tyr Leu Ser Leu Phe *
      65           70

```

<210> 1720
 <211> 101
 <212> PRT
 <213> Homo sapiens

```

      <400> 1720
Met Leu Ala Gly Gln Leu Leu Pro Met Leu Thr Leu Leu Pro Pro Ser
      1           5           10           15

```

```

Phe Pro Leu Pro His Pro Thr Leu Gly Pro Arg Arg His Ala Ser Leu
      20      25      30
Thr Gln Leu Gly Pro Ala Phe Trp Met Ala Trp Gly Arg Pro Trp Ala
      35      40      45
His Leu Gly Pro Gly Gln Pro Leu Gly Gln Leu Trp Lys Ser Ser Val
      50      55      60
Glu Glu His Leu Leu Ala Trp Leu Gln Pro Leu Ala Leu Leu Glu
      65      70      75      80
Trp Ser Leu Gly Ala Ser Ala Leu Ser Ala Leu Gly Thr Ser His Pro
      85      90      95
Leu Gly Leu Gln *
      100

```

```

<210> 1721
<211> 48
<212> PRT
<213> Homo sapiens

```

```

<400> 1721
Met Leu Val Leu Leu Val Trp Val His His Thr Leu Leu Leu Gly Gln
  1      5      10      15
Lys Ser Thr Tyr Glu Glu Lys Arg Asn Gly Lys Trp Gly Arg Gln Arg
      20      25      30
Arg Ala Pro Tyr Leu Gly Val Tyr Ile Glu Ala Thr Gly Gln Val *
      35      40      45      47

```

```

<210> 1722
<211> 70
<212> PRT
<213> Homo sapiens

```

```

<400> 1722
Met Asp Val Gly Pro Asn Ser Leu Pro His Leu Gly Leu Lys Leu Leu
  1      5      10      15
Leu Leu Leu Leu Leu Val Thr Leu Arg Gly Gln Ala Asn Thr Gly Trp
      20      25      30
Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
      35      40      45
Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Asp Ala
      50      55      60
Ile Ser Leu Ile Leu *
      65      69

```

```

<210> 1723
<211> 54
<212> PRT
<213> Homo sapiens

```

```

<400> 1723
Met Asp Leu Ile Phe Val Lys Val Leu Leu Ile Phe Ala Ala Ile Gln

```

```

      1           5           10           15
Thr Leu Ser Lys Trp Gln Phe Ala Phe Thr Phe Ser Ile Gln Thr Val
      20           25           30
Pro Ser Leu Val Ile Asn Leu Ser Trp Leu Leu Leu Asp Leu Lys Pro
      35           40           45
Gly Thr His Ile Gln *
      50           53

```

<210> 1724
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

      <400> 1724
Met Val Ser Gly Trp Ile Thr Lys Thr Gln Phe Leu Leu Leu Gly Arg
      1           5           10           15
Gly Lys Ile Cys Met Tyr Lys Cys Ile Lys Gln Leu Gln Val Arg Lys
      20           25           30
Thr Asp Val Ile Thr Thr Lys Gln Ile Asn Tyr Glu Glu Ile Asn Cys
      35           40           45
Leu Asn His Ile Met Leu Thr Thr Lys Phe Trp *
      50           55           59

```

<210> 1725
 <211> 63
 <212> PRT
 <213> Homo sapiens

```

      <400> 1725
Met Phe Phe Arg Met Gln Val Cys Glu His His Gly Phe Trp Val Ile
      1           5           10           15
Leu Leu Leu Leu Ser Leu Lys Met Glu Ile Pro Leu Ala Ala Tyr Pro
      20           25           30
Thr Ala Glu Tyr Ser Ser Ile Gly Ser Gly Phe Thr Pro Leu His Pro
      35           40           45
Ser Arg Thr Phe Thr Gln Ala Ser Pro Leu Pro Ser Ile Phe *
      50           55           60           62

```

<210> 1726
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

      <400> 1726
Met Cys Leu Phe Cys Ser Phe Val Asn Val Thr Leu Gly Ser Thr Asp
      1           5           10           15
Pro Met Cys Cys Pro Ala Gln Trp Leu Ala Gln Arg Met Pro Trp Ala
      20           25           30
Phe Val Ser Ile Arg Lys Ala Trp Pro Leu Gly Arg Met Ser Gly Ala
      35           40           45

```

Ser Gln Arg Leu Lys Glu Glu Glu *

50 55 56

<210> 1727
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1727

Met	Arg	Trp	Pro	Trp	Ala	Ser	Trp	Ala	Ala	Val	Leu	Leu	Lys	Leu	Pro
1				5				10					15		
Arg	Arg	Val	Leu	Pro	Trp	Leu	Pro	Cys	Gly	His	Gln	Gln	His	Val	Arg
		20						25					30		
Ala	Thr	Ala	Ser	Ser	Arg	Ser	Pro	Pro	Met	Pro	Val	Thr	Lys		
		35					40					45	46		

<210> 1728
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1728

Met	Lys	Met	Glu	Met	Glu	Thr	Lys	Arg	Ser	Trp	Arg	Pro	Gln	Ser	His
1				5					10				15		
Gly	His	Phe	Thr	Phe	Gln	Phe	Leu	Leu	Ser	Trp	Thr	Phe	Glu	Leu	Ile
		20						25					30		
Leu	Phe	His	Phe	Val	Pro	Phe	Phe	Pro	Tyr	Leu	Leu	Phe	*		
		35					40					45			

<210> 1729
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1729

Met	Val	Leu	Leu	Pro	Leu	Gln	Cys	Gly	Leu	Thr	Lys	Ala	Ser	Ser	Cys
1				5					10					15	
Leu	His	Thr	Leu	Cys	Ser	Ser	Ser	Asp	Gln	Ile	Gly	Tyr	Leu	Pro	Val
		20						25					30		
Lys	Asn	Thr	Asp	Gln	Leu	Gly	Leu	Gln	Met	Glu	Val	Ala	Glu	Met	Cys
		35					40					45		48	

*

<210> 1730
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1730
 Met Phe Thr Phe Gly Arg Leu Phe Gln Ile Ile Thr Val Val Thr Cys
 1 5 10 15
 Leu Gln Phe Ile Gln Asp Cys Cys Ile His Ser Arg Gln Ile Asn Ser
 20 25 30
 Leu Leu Glu Thr Ser Ser Leu Ser Arg Cys Leu Glu Val Pro Asp Val
 35 40 45
 Cys *
 49

<210> 1731
 <211> 227
 <212> PRT
 <213> Homo sapiens

<400> 1731
 Met Gly Cys Asp Gly Arg Val Ser Gly Leu Leu Arg Arg Asn Leu Gln
 1 5 10 15
 Pro Thr Leu Thr Tyr Trp Ser Val Phe Ser Phe Gly Leu Cys Ile
 20 25 30
 Ala Phe Leu Gly Pro Thr Leu Leu Asp Leu Arg Cys Gln Thr His Ser
 35 40 45
 Ser Leu Pro Gln Ile Ser Trp Val Phe Phe Ser Gln Gln Leu Cys Leu
 50 55 60
 Leu Leu Gly Ser Ala Leu Gly Gly Val Phe Lys Arg Thr Leu Ala Gln
 65 70 75 80
 Ser Leu Trp Ala Leu Phe Thr Ser Ser Leu Ala Ile Ser Leu Val Phe
 85 90 95
 Ala Val Ile Pro Phe Cys Arg Asp Val Lys Val Leu Ala Ser Val Met
 100 105 110
 Ala Leu Ala Gly Leu Ala Met Gly Cys Ile Asp Thr Val Ala Asn Met
 115 120 125
 Gln Leu Val Arg Met Tyr Gln Lys Asp Ser Ala Val Phe Leu Gln Val
 130 135 140
 Leu His Phe Phe Val Gly Phe Gly Ala Leu Leu Ser Pro Leu Ile Ala
 145 150 155 160
 Asp Pro Phe Leu Ser Glu Ala Asn Cys Leu Pro Ala Asn Ser Thr Gly
 165 170 175
 Gln His His Leu Pro Arg Ala Thr Cys Ser Met Ser Pro Gly Cys Trp
 180 185 190
 Gly Gln His His Val Asp Ala Gln Ala Leu Val Gln Pro Asp Val Pro
 195 200 205
 Lys Ala Asp Ser Gln Gly Pro Gly Arg Glu Pro Glu Gly Pro Met Pro
 210 215 220
 Ser Gly *
 225 226

<210> 1732
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1732

```

Met Val Ser Lys Phe Leu Leu Ser His Leu Val Leu Ala Val Pro Leu
 1          5          10          15
Arg Val Leu Leu Val Leu Trp Ala Leu Cys Val Gly Leu Ser Arg Val
          20          25          30
Met Ile Gly Arg His His Val Thr Asp Val Leu Ser Gly Phe Val Ile
          35          40          45
Gly Tyr Leu Gln Phe Arg Met Met Glu Lys Val Ser Met Gln Tyr Lys
          50          55          60
Thr Cys Arg Met Leu Ile Phe Val Trp Arg Arg Ala Arg Arg Pro Thr
          65          70          75          80
His Thr Phe Glu Gly Arg Leu Val Ser Lys Lys Gly Gln Asp Leu Ala
          85          90          95
Arg Trp Leu Ser Leu *
          100 101

```

<210> 1733

<211> 139

<212> PRT

<213> Homo sapiens

<400> 1733

```

Met Lys Phe Thr Thr Leu Leu Phe Leu Ala Ala Val Ala Gly Ala Leu
 1          5          10          15
Val Tyr Ala Glu Asp Ala Ser Ser Asp Ser Thr Gly Ala Asp Pro Ala
          20          25          30
Gln Glu Ala Gly Thr Ser Lys Pro Asn Glu Glu Ile Ser Gly Pro Ala
          35          40          45
Glu Pro Ala Ser Pro Pro Glu Thr Thr Thr Thr Ala Gln Glu Thr Ser
          50          55          60
Ala Ala Ala Val Gln Gly Thr Ala Lys Val Thr Ser Ser Arg Gln Glu
          65          70          75          80
Leu Asn Pro Leu Lys Ser Ile Val Glu Lys Ser Ile Leu Leu Thr Glu
          85          90          95
Gln Ala Leu Ala Lys Ala Gly Lys Gly Met His Gly Gly Val Pro Gly
          100          105          110
Gly Lys Gln Phe Ile Glu Asn Gly Ser Glu Phe Ala Gln Lys Leu Leu
          115          120          125
Lys Lys Phe Ser Leu Leu Lys Pro Trp Ala *
          130          135          138

```

<210> 1734

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1734

```

Met Val Arg Ala Ser Phe Leu Cys Cys Val His Arg Thr Leu Gly Pro
 1          5          10          15
Trp Asp Leu Ser His Met Glu Leu Gly Gln Leu Leu Gln Asn Ala Pro
          20          25          30
Ser Ala His Arg Gly Cys Leu Gly Val Trp Lys Glu Val Val Pro Lys

```



```
<210> 1735
<211> 73
<212> PRT
<213> Homo sapiens
```

```
<210> 1736
<211> 65
<212> PRT
<213> Homo sapiens
```

```
<210> 1737
<211> 47
<212> PRT
<213> Homo sapiens
```

963

<210> 1738
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 1738
 Met Val Thr Gln Leu Thr Leu Glu Val Leu His Leu Ser Leu Val Val
 1 5 10 15
 Gly Gln Val Ser Asn Asn Leu Leu Leu His Ile Gly Pro Leu Ala Ser
 20 25 30
 Glu Gln Met Phe Tyr Ala Val Ala Thr Lys Ile Arg Asp Glu Asn Thr
 35 40 45
 Tyr Lys Ile Cys Thr Trp Leu Glu Ile Lys Val His His Val Leu Leu
 50 55 60
 His Ile Gln Gly Thr Leu Thr Cys Ser Tyr Leu Ser His Ser Glu Gln
 65 70 75 80
 Leu Val Phe Gln Ser Tyr Glu Tyr Val Asp Cys Arg Gly Asn Ala Ser
 85 90 95
 Val Pro His Gln Leu Thr Pro His Pro Pro *
 100 105 106

<210> 1739
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1739
 Met Val Leu Pro Pro His Lys Thr Val Gln Leu Pro Arg Leu His Leu
 1 5 10 15
 Val Trp Leu Trp Val Ser Gln Ala Trp Val Gly Gly Thr Val Leu His
 20 25 30
 Trp Leu Ala Ser Gln Gln Leu Cys Val Leu Val Pro Ala Ser Leu Thr
 35 40 45
 Met Ser Trp Asp Leu Glu Ala Arg Leu Gly Tyr Ile Leu Ala Trp Met
 50 55 60
 Ser Leu Gly Pro Cys Tyr Cys Cys Leu Phe Thr Ile Pro Thr Leu Leu
 65 70 75 80
 Glu Ile Ser Leu Ile Val Ser Leu Ala *
 85 89

<210> 1740
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1740
 Met His Cys Val Leu Glu Ile Leu Val Ser Val Leu Gly Leu Thr His
 1 5 10 15
 His Leu Leu Leu Arg Asp Arg Asp His Tyr Arg Leu Val Arg Leu Met

```

          20          25          30
Gly Asp Val Gly Gly Glu Gly Glu Leu Lys Ala Met Trp Arg Val Cys
          35          40          45
Leu Ser Val Cys Arg Val Asp Lys *
          50          55  56

```

<210> 1741
 <211> 49
 <212> PRT
 <213> Homo sapiens

```

<400> 1741
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
  1          5          10          15
Val Met Ser Pro Cys Gly Gly Glu Gly Ile Val Gly Glu Cys Met Ser
          20          25          30
Glu Gly Cys Ser Leu Glu Leu Lys Asn Ser Lys Leu Lys Glu Lys Arg
          35          40          45          48
*
```

<210> 1742
 <211> 87
 <212> PRT
 <213> Homo sapiens

```

<400> 1742
Met Ser Phe Val Lys Ile Leu Ile Trp Glu Leu Phe Ile Ala Cys Phe
  1          5          10          15
Pro Gln Gly Pro Leu Val His Ser Gly Lys Met Leu Lys His Gly Leu
          20          25          30
Asp Trp His Arg Thr Leu Leu Gln Lys His Pro Cys Ile Leu Phe Phe
          35          40          45
Ser Phe Leu Lys Trp Asn Leu Ala Leu Ser Pro Trp Met Glu Gly Ser
          50          55          60
Gly Ala Ile Ser Ala His Cys Asn Leu Cys Leu Leu Gly Ser Arg Asp
          65          70          75          80
Ala Pro Ala Ser Val Ser *
          85  86

```

<210> 1743
 <211> 49
 <212> PRT
 <213> Homo sapiens

```

<400> 1743
Met Gly Phe Leu Ser Leu Thr Leu Tyr Leu Leu Thr Ser Leu Asn Lys
  1          5          10          15
Met Leu Phe Lys Leu Arg Gly Ala Gln Pro Thr Glu Glu Asp Ile Gly
          20          25          30

```

Gly Trp Leu Asn Glu Leu Lys Thr Ser Leu Lys Tyr Ile Arg Leu Arg
 35 40 45 48
 *

<210> 1744
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1744
 Met Gly Val Ser Glu Leu Leu Leu Leu Leu Lys Met Ile Ala Ser Val
 1 5 10 15
 Ile Phe Leu Tyr Ser Phe Ile Ser Met Phe Lys Thr Gln Leu Leu Cys
 20 25 30
 Ser Ser Ser Thr Ser His Gly Ile Leu Glu Ser Arg Ile Lys Cys His
 35 40 45
 Ala Asp Phe Tyr Leu Phe Cys Gln *
 50 55 56

<210> 1745
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1745
 Met Asn Gln Leu Ser Phe Leu Leu Phe Leu Ile Ala Thr Thr Arg Gly
 1 5 10 15
 Trp Ser Thr Asp Glu Ala Asn Thr Tyr Phe Leu Glu Cys Thr Cys Ser
 20 25 30
 Trp Ser Pro Ser Leu Pro Lys Ser Cys Pro Glu Ile Lys Asp Gln Cys
 35 40 45
 Pro Ser Ala Phe Asp Gly Leu Tyr Phe Ile Arg Thr Glu Asn Ala Val
 50 55 60
 Ile His His Thr Phe Cys Val Met Thr Ser Ala Gly Cys Phe Trp Ile
 65 70 75 80
 Leu Lys Val Thr Val His Asn Tyr Asp Leu Thr Thr Asp Thr Pro *
 85 90 95

<210> 1746
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1746
 Met Val Ile Ser Ala Ala Val Leu Ser Ser Ile Leu Cys Val Phe Leu
 1 5 10 15
 Ser Lys Leu Val Leu Met Asn Asp Glu Cys Leu Arg Leu Thr Phe Trp
 20 25 30
 Leu His Cys Asn Ala Lys His Tyr Arg Tyr Ser Met Leu Gly Phe Pro

<210> 1749
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1749
 Met Leu Val Lys Val Val Tyr Val Met Gly Ala Ile Leu Lys Ile Phe
 1 5 10 15
 Leu Arg Glu Gly Asn Val Ile Asn Gln Arg Ser Gly Met Asp Ile Glu
 20 25 30
 Lys Tyr Ser Glu His Tyr Leu Ala Gln Gly Val Arg Trp *
 35 40 45

<210> 1750
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1750
 Met Glu Leu Val Arg Arg Leu Met Pro Leu Thr Leu Leu Ile Leu Ser
 1 5 10 15
 Cys Leu Ala Glu Leu Thr Met Ala Glu Ala Glu Gly Asn Ala Ser Cys
 20 25 30
 Thr Val Ser Leu Gly Gly Ala Asn Met Ala Glu Thr His Lys Ala Met
 35 40 45
 Ile Leu Gln Leu Asn Pro Ser Glu Asn Cys Thr Trp Thr Ile Glu Arg
 50 55 60
 Pro Glu Asn Lys Ser Ile Arg Ile Ile Phe Cys Tyr Val Gln Leu Gly
 65 70 75 80
 Ser Glu
 82

<210> 1751
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 1751
 Met Gly Ser Val Phe Trp His Val Leu Phe Cys Ile Ser Gly Val Cys
 1 5 10 15
 Leu Trp Cys Ala His Arg Met Ala Ala Phe Leu Gln Gln Met Ala Val
 20 25 30
 Leu Leu Pro Val Asp Cys Glu Arg Pro Ala Ala Val His Trp Leu Ala
 35 40 45
 Leu Cys Gly Cys Cys Tyr Gly Gln Leu Val Trp Glu Ser Arg Thr Arg
 50 55 60
 Ser Cys Phe Trp Ser Leu Glu Cys Leu Cys Phe Gly Gly Gln His Phe
 65 70 75 80
 Gly Ser Val Pro Ser Phe Phe Cys Ser Ser Val Trp Leu *
 85 90 93

<210> 1752
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1752
 Met Asp Thr Trp Leu Val Cys Trp Ala Ile Phe Ser Leu Leu Lys Ala
 1 5 10 15
 Gly Leu Thr Glu Pro Glu Val Thr Gln Thr Pro Ser His Gln Val Thr
 20 25 30
 Gln Met Gly Gln Glu Val Ile Leu Arg Cys Val Pro Ile Ser Asn His
 35 40 45
 Leu Tyr Phe Tyr Trp Tyr Arg Gln Ile Leu Gly Gln Lys Val Glu Phe
 50 55 60
 Leu Val Ser Phe Tyr Asn Asn Glu Ile Ser Glu Lys Ser Glu Ile Phe
 65 70 75 80
 Asp Asp Gln Phe Ser Val Glu Arg Pro Asp Gly Ser Asn Phe Thr Leu
 85 90 95
 Lys Ile Arg Ser Thr Lys Leu Glu Asp Ser Ala Met Tyr Phe Cys Ala
 100 105 110
 Ser Ser Glu Arg Gly Ser Gly Ala Asn Val Leu Thr Phe Gly Ala Gly
 115 120 125
 Ser Arg Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro
 130 135 140 143

<210> 1753
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1753
 Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
 1 5 10 15
 Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
 20 25 30
 Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
 35 40 45
 Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu *
 50 55 60 63

<210> 1754
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 1754
 Met Val Leu Gln Thr His Ala Phe Ile Ser Leu Leu Leu Trp Ile Ser
 1 5 10 15
 Gly Ala Cys Gly Asp Ile Val Met Thr His Ser Pro Asp Ser Leu Ala
 20 25 30

```

Val Ser Leu Gly Glu Thr Ala Thr Ile Asp Cys Arg Ser Ser Gln Ser
      35                      40                      45
Val Leu Tyr His Ala Asn Asn Lys Asn Tyr Leu Thr Trp Tyr Gln Gln
      50                      55                      60
Arg Pro Arg Gln Ser Pro Lys Val Leu Ile Phe Trp Ala Ser Thr Arg
      65                      70                      75                      80
Glu Thr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
      85                      90                      95
Tyr Ser Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Thr Tyr
      100                      105                      110
Tyr Cys Gln Gln Tyr Tyr Asp Ser Pro Ile Thr Phe
      115                      120                      124

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<210> 1755
<211> 111
<212> PRT
<213> Homo sapiens

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```

<400> 1755
Met Gln Ala Thr Ser Asn Leu Leu Asn Leu Leu Leu Leu Ser Leu Phe
  1                      5                      10                      15
Ala Gly Leu Asn Pro Ser Lys Thr His Ile Asn Pro Lys Glu Gly Trp
      20                      25                      30
Gln Val Tyr Ser Ser Ala Gln Asp Pro Asp Gly Arg Gly Ile Cys Thr
      35                      40                      45
Val Val Ala Pro Glu Gln Asn Leu Cys Ser Arg Asp Ala Lys Ser Arg
      50                      55                      60
Gln Leu Arg Gln Leu Leu Glu Lys Val Gln Asn Met Ser Gln Ser Ile
      65                      70                      75                      80
Glu Val Leu Asn Leu Arg Thr Gln Arg Asp Phe Gln Tyr Val Leu Lys
      85                      90                      95
Met Glu Thr Gln Met Lys Gly Leu Lys Ala Lys Phe Arg Gln Ile
      100                      105                      110 111

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<210> 1756
<211> 74
<212> PRT
<213> Homo sapiens

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```

<400> 1756
Met Leu Pro Arg Leu Val Leu Ser Ser Trp Pro Gln Ser Ile Phe Leu
  1                      5                      10                      15
Pro Arg Phe Trp Asn Tyr Arg Cys Glu Pro Pro Cys Leu Ala Cys Phe
      20                      25                      30
Asp Ile Phe Tyr Ser Val Leu Ile Thr Asn Ser Leu His Met Pro Glu
      35                      40                      45
Tyr Lys Ser Lys Cys Tyr Leu Phe Arg Trp Glu Leu Gln Lys Leu
      50                      55                      60
His Gln Lys Tyr Ala Leu Arg Tyr Ile *
      65                      70                      73

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<210> 1757
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1757
 Met Glu Asn Val Asn Leu Lys Ala Ser Tyr Leu Gln Phe Ser Lys Leu
 1 5 10 15
 Met Ala Gly Lys Gly Trp Ala Leu Phe Ile Ala Leu Thr Phe Ser Gln
 20 25 30
 Arg Leu Leu Pro Cys Leu Ala Ile Ile Glu Ile Ile Asn Val Gly Val
 35 40 45
 Glu *
 49

<210> 1758
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1758
 Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Glu
 1 5 10 15
 Ser Val Ala Ser Tyr Glu Leu Phe Gln Pro Pro Ser Val Ser Val Ser
 20 25 30
 Pro Gly Gln Thr Ala Thr Phe Thr Cys Ser Gly Asp Asp Leu Gly Asn
 35 40 45
 Lys Tyr Ile Cys Trp Tyr Leu Gln Lys Pro Gly Gln Pro Pro Val Val
 50 55 60
 Leu Met Tyr Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe
 65 70 75 80
 Ser Gly Ser Asn Ser Gly Ser Thr Ala Thr Leu Thr Ile Ser Gly Thr
 85 90 95
 Gln Ala Thr Asp Glu Ala Leu Tyr Phe Cys Gln Ala Trp Asp Thr Asn
 100 105 110
 Gly Ala Val Phe Gly Gly Gly Thr Gln Leu Thr
 115 120 123

<210> 1759
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1759
 Met Arg Trp Arg Thr Ile Leu Leu Gln Tyr Cys Phe Leu Leu Ile Thr
 1 5 10 15
 Cys Leu Leu Thr Ala Leu Glu Ala Val Pro Ile Asp Ile Asp Lys Thr
 20 25 30
 Lys Val Gln Asn Ile His Pro Val Glu Ser Ala Lys Ile Glu Pro Pro
 35 40 45
 Asp Thr Gly Leu Tyr Tyr Asp Glu Ile Val Leu Glu Glu Leu Gly Gly
 50 55 60

Pro Cys Leu Tyr Leu Glu Gly Asn Pro Thr *
 65 70 74

<210> 1760
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1760
 Met Arg Leu Pro Asp Val Gln Leu Trp Leu Val Leu Leu Trp Ala Leu
 1 5 10 15
 Val Arg Ala Gln Gly Thr Gly Ser Val Cys Pro Ser Cys Gly Gly Ser
 20 25 30
 Lys Leu Ala Pro Gln Ala Glu Arg Ala Leu Val Leu Glu Leu Ala Lys
 35 40 45
 Gln Gln Ile Leu Asp Gly Leu His Leu Thr Ser Arg Pro Arg Ile Thr
 50 55 60
 His Pro Pro Pro Gln Ala Ala Leu Thr Arg Ala Leu Arg Arg Leu Gln
 65 70 75 80
 Pro Gly Ser Val Ala Pro Gly Asn Gly Glu Glu Val Ile Ser Phe Ala
 85 90 95
 Thr Val Thr Asp Ser Thr Ser Ala Tyr Ser Ser Leu Leu Thr Phe His
 100 105 110
 Leu Ser Thr Pro Arg Ser His His Leu Tyr
 115 120 122

<210> 1761
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1761
 Met Arg Val Arg Ile Gly Leu Thr Leu Leu Leu Cys Ala Val Leu Leu
 1 5 10 15
 Ser Leu Ala Ser Ala Ser Ser Asp Glu Glu Gly Ser Gln Asp Glu Ser
 20 25 30
 Leu Asp Ser Lys Thr Thr Leu Thr Ser Asp Glu Ser Val Lys Asp His
 35 40 45
 Thr Thr Ala Gly Arg Val Val Ala Gly Gln Ile Phe Leu Asp Ser Glu
 50 55 60
 Glu Ser Glu Leu Glu Ser Ser Ile Gln Glu Glu Glu Asp Ser Leu Lys
 65 70 75 80
 Ser Gln Glu Gly Glu Ser Val Thr Glu Asp Ile Ser Phe Leu Glu Ser
 85 90 95
 Pro Asn Pro Glu Asn Lys Asp Tyr Glu Pro Lys Lys Val Arg Lys
 100 105 110
 Pro Gly Ser Leu Asp Ile Phe Leu Ala Phe *
 115 120 122

<210> 1762
 <211> 145

<212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(145)
 <223> Xaa = any amino acid or nothing

<400> 1762
 Met Ala Leu Ala Ala Leu Met Ile Ala Leu Gly Ser Leu Gly Leu His
 1 5 10 15
 Thr Trp Gln Ala Gln Ala Val Pro Thr Ile Leu Pro Leu Gly Leu Ala
 20 25 30
 Pro Asp Thr Phe Asp Asp Thr Tyr Val Gly Cys Ala Glu Glu Met Glu
 35 40 45
 Glu Lys Ala Ala Pro Leu Leu Lys Glu Glu Met Ala His His Ala Leu
 50 55 60
 Leu Arg Glu Ser Trp Glu Ala Ala Gln Glu Thr Trp Glu Asp Lys Arg
 65 70 75 80
 Arg Gly Leu Thr Leu Pro Pro Gly Phe Lys Ala Gln Asn Gly Ile Ala
 85 90 95
 Ile Met Val Tyr Thr Asn Ser Ser Asn Thr Leu Tyr Trp Glu Leu Asn
 100 105 110
 Xaa Ala Val Arg Thr Gly Gly Gly Ser Arg Glu Leu Tyr Met Arg His
 115 120 125
 Phe Pro Phe Lys Ala Leu His Phe Tyr Leu Ile Arg Ala Leu Gln Leu
 130 135 140
 Leu
 145

<210> 1763
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 1763
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15
 Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30
 Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45
 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Gly Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

```

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
      165      170      175
Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
      180      185      190
Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
      195      200      205
Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Asn
      210      215      220
Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Glu Tyr Arg Lys Ser Ser
225      230      235      240
Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp
      245      250      255 256

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<210> 1764

<211> 166

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(166)

<223> Xaa = any amino acid or nothing

<400> 1764

```

Met Ala Leu Lys Val Leu Leu Glu Gln Glu Lys Thr Phe Phe Thr Leu
 1      5      10      15
Leu Val Leu Leu Gly Tyr Leu Ser Cys Lys Val Thr Cys Glu Ser Gly
      20      25      30
Asp Cys Arg Gln Gln Glu Phe Arg Asp Arg Ser Gly Asn Cys Val Pro
      35      40      45
Cys Asn Gln Cys Gly Pro Gly Met Glu Leu Ser Lys Glu Cys Gly Phe
      50      55      60
Gly Tyr Gly Glu Asp Ala Gln Cys Val Thr Cys Arg Leu His Arg Phe
      65      70      75      80
Lys Glu Asp Trp Gly Phe Gln Lys Cys Lys Pro Cys Leu Asp Cys Ala
      85      90      95
Val Val Asn Arg Phe Gln Lys Ala Asn Cys Ser Ala Thr Ser Asp Ala
      100      105      110
Ile Cys Gly Asp Cys Leu Pro Gly Phe Tyr Arg Lys Thr Lys Leu Val
      115      120      125
Gly Phe Gln Asp Met Glu Trp Trp Xaa Ala Leu Val Gly Arg Thr Pro
      130      135      140
Phe Leu Pro Ser Leu Tyr Gly Asn Pro Ala Leu Gly Cys Gln Pro Arg
145      150      155      160
Val Gln Thr Phe Gly Glu
      165 166

```

<210> 1765

<211> 90

<212> PRT

<213> Homo sapiens

<400> 1765

```

Met Ser Cys Ser Cys Pro Pro Cys Phe Phe Thr Leu Phe Leu His Ser
 1          5          10          15
Ile Cys Gln Asp Ile Ser Trp Phe His Pro Gln Thr Pro Thr Leu Asp
          20          25          30
Ser Leu Leu Asn Trp Ile Asp Asp Leu Ile Phe Tyr Gly Thr Leu Tyr
          35          40          45
Asn Phe Phe Pro Glu Glu Thr Pro Leu Phe Thr Phe Leu Leu Thr Leu
          50          55          60
Tyr Leu Ser Leu Leu Leu Leu Trp Leu Pro Gly Met Ala Ala Leu Pro
 65          70          75          80
Leu Ala Val Met Pro Asn Tyr Leu Tyr Lys
          85          90

```

<210> 1766

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1766

```

Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ser Leu Trp
 1          5          10          15
Leu Cys Cys Ala Thr Pro Ala Pro Ala Leu Gln Cys Pro Glu Gly Tyr
          20          25          30
Glu Pro Ser Pro Leu Asp Arg Lys Cys Ala Pro Tyr Pro Asn Val Arg
          35          40          45
Arg Ser Cys Pro Cys Pro Glu Gly Phe
 50          55          57

```

<210> 1767

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1767

```

Met Val Phe Leu Tyr Gly Phe Val Phe Ile Lys Lys Ala Gln Leu Ile
 1          5          10          15
Val Val Leu Leu Phe Thr Asp Val Ala Gln Arg Thr Ala Ala Gly Arg
          20          25          30
Pro Pro Thr Pro Val Leu Gly Pro Pro Ser Pro Glu Cys Cys Leu Leu
          35          40          45
Phe Met Glu Gly Glu Gln Trp Ile Leu Gly Thr Thr Gly Gln Ala
 50          55          60          63

```

<210> 1768

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1768

```

Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile
 1          5          10          15
Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His
          20          25          30
Cys Asp Leu Ala His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys
          35          40          45
Asp Pro Gly Trp Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro
          50          55          60
Gly Cys Gln His Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His
          65          70          75          80
Ser Gly Trp Ala Gly Lys Phe Cys Asp Lys Asp Glu His Ile Cys Thr
          85          90          95
Thr Gln Ser Pro Cys Gln Asn Gly Gly Gln Cys Met Tyr Asp Gly Gly
          100          105          110
Gly Glu Tyr His Cys Val Cys Leu Pro Gly Phe His Gly Arg Asp Cys
          115          120          125
Glu Arg Lys Ala Gly Pro Cys Glu Gln Ala Gly Ser Pro Cys Arg Asn
          130          135          140
Gly Gly Gln Cys Gln Asp Asp Gln Gly Phe Ala Leu Asn Phe Thr Cys
145          150          155          160
Arg Cys Leu Val Gly Phe Val Gly Ala Arg Cys Asp Val *
          165          170          173

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<210> 1769
 <211> 78
 <212> PRT
 <213> Homo sapiens

```

<400> 1769
Met Leu Cys Leu Cys Arg Phe Ala Cys Ser Arg Arg Phe Thr Ala Met
 1          5          10          15
Gly Leu Phe Cys Leu Ala Ser Leu Thr Leu His His Ile Phe Lys Val
          20          25          30
His Pro Ser Cys Ser Val Ser Val Pro Pro Gly Phe Ser Leu Leu Ser
          35          40          45
Ser Ala Arg Cys Met Asp Arg Pro Arg Cys Ala His Leu Phe Ala Leu
          50          55          60
Met Gly Pro Cys Leu Gly Leu Ser Thr Phe Gly Arg Leu *
65          70          75          77

```

<210> 1770
 <211> 149
 <212> PRT
 <213> Homo sapiens

```

<400> 1770
Met Leu Val Thr Leu Gly Leu Leu Thr Ser Phe Phe Ser Phe Leu Tyr
 1          5          10          15
Met Val Ala Pro Ser Ile Arg Lys Phe Phe Ala Gly Gly Val Cys Arg
          20          25          30
Thr Asn Val Gln Leu Pro Gly Lys Val Val Val Ile Thr Gly Ala Asn
          35          40          45
Thr Gly Ile Gly Lys Glu Thr Ala Arg Glu Leu Ala Ser Arg Gly Ala

```

50		55		60											
Arg	Val	Tyr	Ile	Ala	Cys	Arg	Asp	Val	Leu	Lys	Gly	Glu	Ser	Ala	Ala
65					70					75					80
Ser	Glu	Ile	Arg	Val	Asp	Thr	Lys	Asn	Ser	Gln	Val	Leu	Val	Arg	Lys
				85					90					95	
Leu	Asp	Leu	Ser	Asp	Thr	Lys	Ser	Ile	Arg	Ala	Phe	Ala	Glu	Gly	Phe
			100					105					110		
Leu	Ala	Glu	Glu	Lys	Gln	Leu	His	Ile	Leu	Ile	Asn	Asn	Ala	Gly	Val
		115					120					125			
Met	Met	Cys	Pro	Tyr	Ser	Lys	Thr	Ala	Asp	Gly	Phe	Glu	Thr	His	Leu
	130					135						140			
Gly	Val	Asn	His	Leu											
145				149											

<210> 1771
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1771															
Met	Met	Thr	Leu	Leu	Arg	Arg	Gln	Glu	Arg	Phe	Pro	Gly	Ile	Thr	Phe
1				5					10					15	
Trp	Leu	Leu	Ile	Gln	Leu	Leu	Gln	Gln	Ile	Leu	Ile	Ser	Tyr	His	Gln
			20					25					30		
Gly	Ser	Leu	Thr	Phe	Met	Glu	Asn	Gly	Asn	Cys	Leu	Leu	Gln	Leu	Phe
		35					40					45			
Gln	Leu	Gly	Lys	Leu	Leu	Val	Gln	Ala	Ser	His	Leu	His	Gly	Gln	Leu
	50					55					60				
Leu	Val	Phe	Val	Gln	Lys	Ile	Ile	Ile	Ser	Met	*				
65					70					75					

<210> 1772
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 1772															
Met	Gly	Ser	Thr	Lys	His	Trp	Gly	Glu	Trp	Leu	Leu	Asn	Leu	Lys	Val
1				5					10					15	
Ala	Pro	Ala	Gly	Val	Phe	Gly	Val	Ala	Phe	Leu	Ala	Arg	Val	Ala	Leu
			20					25					30		
Val	Phe	Tyr	Gly	Val	Phe	Gln	Asp	Arg	Thr	Leu	His	Val	Arg	Tyr	Thr
		35					40					45			
Asp	Ile	Asp	Tyr	Gln	Val	Phe	Thr	Asp	Ala	Ala	Arg	Phe	Val	Thr	Glu
	50					55					60				
Gly	Arg	Ser	Pro	Tyr	Leu	Arg	Ala	Thr	Tyr	Arg	Tyr	Thr	Pro	Leu	Leu
65					70				75					80	
Gly	Trp	Leu	Leu	Thr	Pro	Asn	Ile	Tyr	Leu	Ser	Glu	Leu	Phe	Gly	Lys
				85					90					95	
Phe	Leu	Phe	Ile	Ser	Cys	Asp	Leu	Leu	Thr	Ala	Phe	Leu	Leu	Tyr	Arg
			100					105					110		
Leu	Leu	Leu	Leu	Lys	Gly	Leu	Gly	Arg	Arg	Gln	Ala	Cys	Gly	Tyr	Cys
		115					120					125		128	

<210> 1773
 <211> 614
 <212> PRT
 <213> Homo sapiens

<400> 1773
 Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
 20 25 30
 Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
 35 40 45
 Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
 50 55 60
 Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
 65 70 75 80
 Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
 85 90 95
 Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
 100 105 110
 Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
 115 120 125
 Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val
 130 135 140
 Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro
 145 150 155 160
 Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val
 165 170 175
 His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr
 180 185 190
 Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu
 195 200 205
 Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser
 210 215 220
 Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala
 225 230 235 240
 Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val
 245 250 255
 Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala
 260 265 270
 Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu
 275 280 285
 Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln
 290 295 300
 Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu
 305 310 315 320
 Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly
 325 330 335
 Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala
 340 345 350
 Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly
 355 360 365
 Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val


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      370              375              380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp
385              390              395              400
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
      405              410              415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val
      420              425              430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala
      435              440              445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile
      450              455              460
Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp
465              470              475              480
Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu
      485              490              495
Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro
      500              505              510
Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg
      515              520              525
Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys
      530              535              540
Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
545              550              555              560
Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala
      565              570              575
Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu
      580              585              590
Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys
      595              600              605
Arg Leu Arg Lys Arg *
      610              613

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<210> 1774
<211> 156
<212> PRT
<213> Homo sapiens

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      <400> 1774
Met Glu Ala Leu Thr Leu Trp Leu Leu Pro Trp Ile Cys Gln Cys Val
  1              5              10              15
Ser Val Arg Ala Asp Ser Ile Ile His Ile Gly Ala Ile Phe Glu Glu
      20              25              30
Asn Ala Ala Lys Asp Asp Arg Val Phe Gln Leu Ala Val Ser Asp Leu
      35              40              45
Ser Leu Asn Asp Asp Ile Leu Gln Ser Glu Lys Ile Thr Tyr Ser Ile
      50              55              60
Lys Val Ile Glu Ala Asn Asn Pro Phe Gln Ala Val Gln Glu Ala Cys
      65              70              75              80
Asp Leu Met Thr Gln Gly Ile Leu Ala Leu Val Thr Ser Thr Gly Cys
      85              90              95
Ala Ser Ala Asn Ala Leu Gln Ser Leu Thr Asp Ala Met His Ile Pro
      100              105              110
His Leu Phe Val Gln Arg Asn Pro Gly Gly Ser Pro Arg Thr Ala Cys
      115              120              125
His Leu Asn Pro Ser Pro Asp Gly Glu Ala Tyr Thr Leu Ala Ser Arg
      130              135              140

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Pro Pro Val Arg Leu Asn Asp Val Met Leu Arg Leu
 145 150 155 156

<210> 1775
 <211> 896
 <212> PRT
 <213> Homo sapiens

<400> 1775
 Met Gln Lys Ala Ser Val Leu Leu Phe Leu Ala Trp Val Cys Phe Leu
 1 5 10 15
 Phe Tyr Ala Gly Ile Ala Leu Phe Thr Ser Gly Phe Leu Leu Thr Arg
 20 25 30
 Leu Glu Leu Thr Asn His Ser Ser Cys Gln Glu Pro Pro Gly Pro Gly
 35 40 45
 Ser Leu Pro Trp Gly Ser Gln Gly Lys Pro Gly Ala Cys Trp Met Ala
 50 55 60
 Ser Arg Phe Ser Arg Val Val Leu Val Leu Ile Asp Ala Leu Arg Phe
 65 70 75 80
 Asp Phe Ala Gln Pro Gln His Ser His Val Pro Arg Glu Pro Pro Val
 85 90 95
 Ser Leu Pro Phe Leu Gly Lys Leu Ser Ser Leu Gln Arg Ile Leu Glu
 100 105 110
 Ile Gln Pro His His Ala Arg Leu Tyr Arg Ser Gln Val Asp Pro Pro
 115 120 125
 Thr Thr Thr Met Gln Arg Leu Lys Ala Leu Thr Thr Gly Ser Leu Pro
 130 135 140
 Thr Phe Ile Asp Ala Gly Ser Asn Phe Ala Ser His Ala Ile Val Glu
 145 150 155 160
 Asp Asn Leu Ile Lys Gln Leu Thr Ser Ala Gly Arg Arg Val Val Phe
 165 170 175
 Met Gly Asp Asp Thr Trp Lys Asp Leu Phe Pro Gly Ala Phe Ser Lys
 180 185 190
 Ala Phe Phe Phe Pro Ser Phe Asn Val Arg Asp Leu Asp Thr Val Asp
 195 200 205
 Asn Gly Ile Leu Glu His Leu Tyr Pro Thr Met Asp Ser Gly Glu Trp
 210 215 220
 Asp Val Leu Ile Ala His Phe Leu Gly Val Asp His Cys Gly His Lys
 225 230 235 240
 His Gly Pro His His Pro Glu Met Ala Lys Lys Leu Ser Gln Met Asp
 245 250 255
 Gln Val Ile Gln Gly Leu Val Glu Arg Leu Glu Asn Asp Thr Leu Leu
 260 265 270
 Val Val Ala Gly Asp His Gly Met Thr Thr Asn Gly Asp His Gly Gly
 275 280 285
 Asp Ser Glu Leu Glu Val Ser Ala Ala Leu Phe Leu Tyr Ser Pro Thr
 290 295 300
 Ala Val Phe Pro Ser Thr Pro Pro Glu Glu Pro Glu Val Ile Pro Gln
 305 310 315 320
 Val Ser Leu Val Pro Thr Leu Ala Leu Leu Leu Gly Leu Pro Ile Pro
 325 330 335
 Phe Gly Asn Ile Gly Glu Val Met Ala Glu Leu Phe Ser Gly Gly Glu
 340 345 350
 Asp Ser Gln Pro His Ser Ser Ala Leu Ala Gln Ala Ser Ala Leu His
 355 360 365
 Leu Asn Ala Gln Gln Val Ser Arg Phe Phe His Thr Tyr Ser Ala Ala

370	375	380			
Thr Gln Asp Leu Gln Ala Lys Glu Leu His Gln Leu Gln Asn Leu Phe					
385	390	395			400
Ser Lys Ala Ser Ala Asp Tyr Gln Trp Leu Leu Gln Ser Pro Lys Gly					
	405	410			415
Ala Glu Ala Thr Leu Pro Thr Val Ile Ala Glu Leu Gln Gln Phe Leu					
	420	425			430
Arg Gly Ala Arg Ala Met Cys Ile Glu Ser Trp Ala Arg Phe Ser Leu					
	435	440			445
Val Arg Met Ala Gly Gly Thr Ala Leu Leu Ala Ala Ser Cys Phe Ile					
	450	455			460
Cys Leu Leu Ala Ser Gln Trp Ala Ile Ser Pro Gly Phe Pro Phe Cys					
465	470	475			480
Pro Leu Leu Leu Thr Pro Val Ala Trp Gly Leu Val Gly Ala Ile Ala					
	485	490			495
Tyr Ala Gly Leu Leu Gly Thr Ile Glu Leu Lys Leu Asp Leu Val Leu					
	500	505			510
Leu Gly Ala Val Ala Ala Val Ser Ser Phe Leu Pro Phe Leu Trp Lys					
	515	520			525
Ala Trp Ala Gly Trp Gly Ser Lys Arg Pro Leu Ala Thr Leu Phe Pro					
	530	535			540
Ile Pro Gly Pro Val Leu Leu Leu Leu Leu Phe Arg Leu Ala Val Phe					
545	550	555			560
Phe Ser Asp Ser Phe Val Val Ala Glu Ala Arg Ala Thr Pro Phe Leu					
	565	570			575
Leu Gly Ser Phe Ile Leu Leu Leu Val Val Gln Leu His Trp Glu Gly					
	580	585			590
Gln Leu Leu Pro Pro Lys Leu Leu Thr Met Pro Arg Leu Gly Thr Ser					
	595	600			605
Ala Thr Thr Asn Pro Pro Arg His Asn Gly Ala Tyr Ala Leu Arg Leu					
	610	615			620
Gly Ile Gly Leu Leu Leu Cys Thr Arg Leu Ala Gly Leu Phe His Arg					
625	630	635			640
Cys Pro Glu Glu Thr Pro Val Cys His Ser Ser Pro Trp Leu Ser Pro					
	645	650			655
Leu Ala Ser Met Val Gly Gly Arg Ala Lys Asn Leu Trp Tyr Gly Ala					
	660	665			670
Cys Val Ala Ala Leu Val Ala Leu Leu Ala Ala Val Arg Leu Trp Leu					
	675	680			685
Arg Arg Tyr Gly Asn Leu Lys Ser Pro Glu Pro Pro Met Leu Phe Val					
	690	695			700
Arg Trp Gly Leu Pro Leu Met Ala Leu Gly Thr Ala Ala Tyr Trp Ala					
705	710	715			720
Leu Ala Ser Gly Ala Asp Glu Ala Pro Pro Arg Leu Arg Val Leu Val					
	725	730			735
Ser Gly Ala Ser Met Val Leu Pro Arg Ala Val Ala Gly Leu Ala Ala					
	740	745			750
Ser Gly Leu Ala Leu Leu Leu Trp Lys Pro Val Thr Val Leu Val Lys					
	755	760			765
Ala Gly Ala Gly Ala Pro Arg Thr Arg Thr Val Leu Thr Pro Phe Ser					
	770	775			780
Gly Pro Pro Thr Ser Gln Ala Asp Leu Asp Tyr Val Val Pro Gln Ile					
785	790	795			800
Tyr Arg His Met Gln Glu Glu Phe Arg Gly Arg Leu Glu Arg Thr Lys					
	805	810			815
Ser Gln Gly Pro Leu Thr Val Ala Ala Tyr Gln Leu Gly Ser Val Tyr					
	820	825			830
Ser Ala Ala Met Val Thr Ala Leu Thr Leu Leu Ala Phe Pro Leu Leu					
	835	840			845

Leu Leu His Ala Glu Arg Ile Ser Leu Val Phe Leu Leu Leu Phe Leu
 850 855 860
 Gln Ser Phe Leu Leu Leu His Leu Leu Ala Ala Gly Ile Pro Val Thr
 865 870 875 880
 Thr Pro Gly Lys Tyr Leu Ser Ser Asp Ser Leu Lys Asp Asn Ser Asp
 885 890 895 896

<210> 1776
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 1776
 Met Trp Ala Cys Trp Cys Val Leu Gly Thr Pro Gly Val Ala Met Val
 1 5 10 15
 Leu Leu His Thr Thr Ile Ser Phe Cys Val Ala Gln Phe Arg Ser Gln
 20 25 30
 Leu Leu Thr Trp Leu Cys Ser Leu Leu Leu Leu Ser Thr Leu Arg Leu
 35 40 45
 Gln Gly Val Glu Glu Val Lys Arg Arg Trp Tyr Lys Thr Glu Asn Glu
 50 55 60
 Tyr Tyr Leu Leu Gln Phe Thr Leu Thr Val Arg Cys Leu Tyr Tyr Thr
 65 70 75 80
 Ser Phe Ser Leu Glu Leu Cys Trp Gln Gln Leu Pro Ala Ala Ser Thr
 85 90 95
 Ser Tyr Ser Phe Pro Trp Met Leu Ala Tyr Val Phe Tyr Tyr Pro Val
 100 105 110
 Leu His Asn Gly Pro Ile Leu Ser Phe Ser Glu Phe Ile Lys Gln Arg
 115 120 125
 Ser Gln Trp Ser Asn Arg Glu Phe Gly Met Glu Val Glu Ser Lys Gly
 130 135 140
 Pro Gly Ala His Pro Pro Gly Phe Glu Ser Leu Leu Cys Phe Gly Leu
 145 150 155 160
 Arg Val Leu Ala Glu Leu Leu Thr Leu Leu Met Pro Gln Ser Ser Tyr
 165 170 175
 Gln *
 177

<210> 1777
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1777
 Met Pro Thr Tyr Trp Leu Ala Asn Leu Arg Pro Gly Leu Gln Pro Phe
 1 5 10 15
 Leu Leu His Phe Leu Leu Glu Trp Leu Ala Val Phe Cys Cys Lys Ile
 20 25 30
 Met Val Leu Ala Ala Ala Gly Leu Leu Pro Thr Leu His Met Ala Ser
 35 40 45
 Phe Phe Ser Asn Ala Leu Tyr Asn Cys Phe Tyr

50

55

59

<210> 1778
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 1778
 Met Val Ala Pro Gly Leu Val Leu Gly Leu Val Leu Pro Leu Ile Leu
 1 5 10 15
 Trp Ala Asp Arg Ser Ala Gly Ile Gly Phe Arg Phe Ala Ser Tyr Ile
 20 25 30
 Asn Asn Asp Met Val Leu Gln Lys Glu Pro Ala Gly Ala Val Ile Trp
 35 40 45
 Gly Phe Gly Thr Pro Gly Ala Thr Val Thr Val Thr Leu Arg Gln Gly
 50 55 60
 Gln Glu Thr Ile Met Lys Lys Val Thr Ser Val Lys Ala His Ser Asp
 65 70 75 80
 Thr Trp Met Val Val Leu Asp Pro Met Lys Pro Gly Gly Pro Phe Glu
 85 90 95
 Val Met Ala Gln Gln Thr Leu Glu Lys Ile Asn Phe Thr Leu Arg Val
 100 105 110
 His Asp Val Leu Phe Gly Asp Val Trp Leu Cys Ser Gly Gln Ser Asn
 115 120 125
 Met Gln Met Thr Val Leu Gln Ile Phe
 130 135 137

<210> 1779
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1779
 Met Lys Val Phe Phe Leu Asp Glu Ser Trp Pro Gln Trp Arg Phe Ala
 1 5 10 15
 Ala Gly Leu Leu Ala Leu Ser Phe Gly Gly Pro Ala Trp Lys Phe Leu
 20 25 30
 Ser Val Gln Arg Val Ile Pro Trp Leu Trp Ala Ala Lys Glu Lys Pro
 35 40 45
 Leu Gly Pro Leu Ala Thr Pro Pro Arg Leu Asn Pro Lys Val Gly Val
 50 55 60 64
 *

<210> 1780
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1780

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Met Phe His Cys Tyr Trp Phe Arg Cys Leu Ser Pro Gln Thr Leu Leu
  1           5           10           15
Cys Lys Cys Phe Ser Lys Gly Arg Thr Asp Trp Asn Cys Gly Ser Ala
          20           25           30
Arg Ser His Ser Phe Gln Ser His Phe Phe Ser Ala Ala Leu Ser Ser
      35           40           45
Cys Gly Thr Leu *
      50           52

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<210> 1781
<211> 109
<212> PRT
<213> Homo sapiens

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<400> 1781
Met Met His Asn Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu
  1           5           10           15
Gly Ile Thr Val Val Gln Met Leu Ile Ser Val Thr Gly Leu Lys Gly
          20           25           30
Val Glu Ala Gln Asn Gly Ser Glu Ser Glu Val Phe Val Gly Lys Tyr
          35           40           45
Glu Thr Leu Val Phe Tyr Trp Pro Ser Leu Leu Cys Leu Ala Phe Leu
      50           55           60
Leu Gly Arg Phe Leu His Met Phe Val Lys Ala Leu Arg Val His Leu
      65           70           75           80
Gly Trp Glu Leu Gln Val Glu Glu Lys Ser Val Leu Glu Val His Gln
          85           90           95
Gly Glu His Val Lys Gln Leu Leu Arg Ile Pro Arg Pro
          100           105           109

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<210> 1782
<211> 58
<212> PRT
<213> Homo sapiens

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<400> 1782
Met Ala Ser Thr Trp Ser Leu Glu Arg Val Gly Thr Cys Leu Pro Cys
  1           5           10           15
Gly Phe Gly Thr Trp Gln Ser Thr Ala Arg Trp Pro Ser Cys Arg Ser
          20           25           30
Thr Ser Met Val Trp Leu Val Trp Pro Ser Leu Leu Ala Pro Ser Thr
          35           40           45
Leu Ser Leu Trp Ala Thr Ser Met Thr *
      50           55           57

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<210> 1783
<211> 102
<212> PRT
<213> Homo sapiens

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<400> 1783
 Met Leu Ile Pro His Gln Leu Pro Leu Cys Ser Pro Trp Leu Val Gln
 1 5 10 15
 Ala Met Leu Thr Ile Glu Val Pro Trp Leu Leu Gly Leu Ala His Tyr
 20 25 30
 Arg Leu Gly Trp His Ala Leu Glu Gly Ile Phe Trp Trp Gly Ala Ser
 35 40 45
 Val Phe His Ala Leu Gln Ala Met Leu Val Arg Lys Trp Pro Leu Gly
 50 55 60
 Leu Val Glu Phe Thr Gly Thr Cys Gly Ile Leu Val Glu Val Ile Gly
 65 70 75 80
 Leu Trp Trp Gly Glu Gly Ser Thr Gly Asn Arg Trp Met Gly Leu Asn
 85 90 95
 Ser Thr Gly Gly Gln *
 100 101

<210> 1784
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 1784
 Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
 1 5 10 15
 Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
 20 25 30
 Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35 40 45
 Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
 50 55 60
 Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
 65 70 75 80
 Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
 85 90 95
 Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Met Thr Asp Asn
 100 105 110
 Lys Thr Gly Glu Val Leu Ile Ser Glu Asn Val Val Ala Ser Ile Gln
 115 120 125
 Pro Ala Glu Gly Ser Phe Glu Gly Asp Leu Lys Val Pro Arg Met Glu
 130 135 140
 Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe His
 145 150 155 160
 Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro Arg
 165 170 175
 Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser Glu
 180 185 190
 Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly Thr
 195 200 205
 His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His Ser Arg
 210 215 220
 Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser Arg
 225 230 235 240
 Gln Leu *
 242

<210> 1785
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1785
 Met Lys Ala Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn
 1 5 10 15
 Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys
 20 25 30
 Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys Arg Arg Ser
 35 40 45
 Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr Ala Thr Ala Pro
 50 55 60
 Ser Pro Glu Val Ser Ala Ala Thr Ile Ser Leu Met Thr Asp Glu
 65 70 75 80
 Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser Ser Ala Glu Asp Gly Gln
 85 90 95
 Pro Ala Ile Ser Pro Val Asp Ser Gly Arg Ser Asn Arg Thr Arg Ala
 100 105 110
 Arg Pro Phe Glu Arg Ser Thr Ile Ile Ser Arg Ser Phe Lys Lys Ile
 115 120 125
 Asn Arg Ala Leu Ser Val Leu Arg Arg Thr Lys Ser Gly Ser Ala Val
 130 135 140
 Ala Asn His Ala Asp Gln Gly Arg Glu Asn Ser Glu Asn Thr
 145 150 155 158

<210> 1786
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 1786
 Met Glu Ser Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val Val
 1 5 10 15
 Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu Val Ala
 20 25 30
 Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly Arg Gln Val
 35 40 45
 Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe Leu Gly Ile Pro
 50 55 60
 Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe Ser Ala Pro His Pro
 65 70 75 80
 Ala Gln Pro Trp Glu Gly Val Arg Asp Ala Ser Thr Ala Pro Pro Met
 85 90 95
 Cys Leu Gln Asp Val Glu Ser Met Asn Ser Ser Arg Phe Val Leu Asn
 100 105 110
 Gly Lys Gln Gln Ile Phe Ser Val Ser Glu Asp Cys Leu Val Leu Asn
 115 120 125
 Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro
 130 135 140 142

<210> 1787
 <211> 120
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(120)
 <223> Xaa = any amino acid or nothing

<400> 1787
 Met Ala Leu Thr Gly Tyr Ser Trp Leu Leu Leu Ser Ala Thr Phe Leu
 1 5 10 15
 Asn Val Gly Ala Glu Ile Ser Ile Thr Leu Glu Pro Ala Gln Pro Ser
 20 25 30
 Glu Gly Asp Asn Val Thr Leu Val Val His Gly Leu Ser Gly Glu Leu
 35 40 45
 Leu Ala Tyr Ser Trp Tyr Ala Gly Pro Thr Leu Ser Val Ser Tyr Leu
 50 55 60
 Val Ala Ser Tyr Ile Val Ser Thr Gly Asp Glu Thr Pro Gly Pro Ala
 65 70 75 80
 His Thr Xaa Arg Glu Ala Val Arg Pro Asp Gly Ser Leu Asp Ile Gln
 85 90 95
 Gly Ile Leu Pro Arg His Ser Ser Thr Tyr Ile Leu Gln Thr Phe Asn
 100 105 110
 Arg Gln Leu Gln Thr Glu Val Gly
 115 120

<210> 1788
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1788
 Met Ser Trp Leu Ala Asn Gly Val Cys Leu Tyr Glu Tyr Leu Phe Phe
 1 5 10 15
 Arg Cys Gly Phe Leu Ile Leu Gln Pro Cys Ser Phe Asp Ala Ser Leu
 20 25 30
 Thr Asp Glu Glu Ser Arg Lys Asn Trp Glu Glu Phe Gly Asn Pro Asp
 35 40 45
 Gly Pro Gln Gly Val Val Asn Asp Asp Phe Lys Ile Leu Ala Ile Trp
 50 55 60
 Tyr Ile Leu *
 65 67

<210> 1789
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 1789
 Met Ala Val Val Ile Arg Leu Leu Gly Leu Pro Phe Ile Ala Gly Pro
 1 5 10 15

Val Asp Ile Arg His Phe Phe Thr Gly Leu Thr Ile Pro Asp Gly Gly
 20 25 30
 Val His Ile Ile Gly Gly Glu Ile Gly Glu Ala Phe Ile Ile Phe Ala
 35 40 45
 Thr Asp Glu Asp Ala Arg Arg Ala Ile Ser Arg Ser Gly Gly Phe Ile
 50 55 60
 Lys Asp Ser Ser Val Glu Leu Phe Leu Ser Ser Lys Ala Glu Met Gln
 65 70 75 80
 Lys Thr Ile Glu Met Lys Arg Thr Asp Arg Val Gly Arg Gly Arg Pro
 85 90 95
 Gly Ser Gly Thr Ser Gly Val Asp Ser Leu Ser Asn Phe Ile Glu Ser
 100 105 110
 Val Lys Glu Glu Ala Ser Asn Ser Gly Tyr Gly Ser Ser Ile Asn Gln
 115 120 125
 Asp Ala Gly Phe His
 130 133

<210> 1790
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1790
 Met Ala Ala Trp Gly Phe Cys Phe Ala Val Ser Ala Leu Val Val Ala
 1 5 10 15
 Cys Glu Phe Thr Arg Leu His Gly Cys Leu Arg Leu Ser Trp Gly Asn
 20 25 30
 Phe Thr Ala Ala Phe Ala Met Leu Ala Thr Leu Leu Cys Ala Thr Ala
 35 40 45
 Ala Val Leu Tyr Pro Leu Tyr Phe Ala Arg Arg Glu Cys Pro Pro Glu
 50 55 60
 Pro Ala Gly Cys Ala Ala Arg Asp Phe Arg Leu Ala Ala Ser Val Phe
 65 70 75 80
 Ala Gly
 82

<210> 1791
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1791
 Met His Ala Ser Glu Gly Leu Pro Ala Leu Pro Leu Leu Ala Leu Val
 1 5 10 15
 Ser His Ser His Ser Cys Pro Pro Leu Pro Leu Gln Pro His His Leu
 20 25 30
 Pro Ala Ile Leu Phe Phe Leu Val Gly His Gln Leu Met Lys Cys Ile
 35 40 45
 Arg *
 49

<210> 1792
 <211> 166
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(166)
 <223> Xaa = any amino acid or nothing

<400> 1792
 Met Leu Leu Trp Leu Leu Leu Leu Ile Leu Thr Pro Gly Arg Glu Gln
 1 5 10 15
 Ser Gly Val Ala Pro Lys Ala Val Leu Leu Leu Asp Pro Pro Trp Ser
 20 25 30
 Thr Ala Phe Lys Gly Glu Lys Val Ala Leu Ile Cys Ser Ser Ile Ser
 35 40 45
 His Ser Leu Ala Gln Gly Asp Thr Tyr Trp Tyr His Asp Glu Lys Leu
 50 55 60
 Leu Lys Ile Lys His Asp Lys Ile Gln Ile Thr Glu Pro Gly Asn Tyr
 65 70 75 80
 Gln Cys Lys Thr Arg Gly Ser Ser Leu Ser Asp Ala Val His Val Glu
 85 90 95
 Phe Ser Pro Asp Trp Leu Ile Leu Gln Ala Leu His Pro Val Phe Glu
 100 105 110
 Gly Asp Asn Val Ile Leu Arg Cys Gln Gly Lys Asp Asn Lys Asn Thr
 115 120 125
 His His Lys Val Tyr Tyr Lys Asp Gly Lys Gln Xaa Ser Asn Ser Tyr
 130 135 140
 Asn Leu Glu Lys Asn Thr Val Asp Ser Val Ser Arg Asp Asn Ser Pro
 145 150 155 160
 Tyr Tyr Cys Ala Gly *
 165

<210> 1793
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1793
 Met Ala Thr Ala Ala Gln Gly Pro Leu Ser Leu Leu Trp Gly Trp Leu
 1 5 10 15
 Trp Ser Glu Arg Phe Trp Leu Pro Glu Asn Val Ser Trp Ala Asp Leu
 20 25 30
 Glu Gly Pro Ala Asp Gly Tyr Gly Tyr Pro Arg Gly Arg His Ile Leu
 35 40 45
 Ser Val Phe Pro Leu Ala Ala Gly Ile Phe Phe Val Arg Leu Leu Phe
 50 55 60
 Glu Arg Phe Ile Ala Lys Pro Cys Ala Leu Arg Ile Gly Ile Glu Asp
 65 70 75 80
 Ser Gly Pro Tyr Gln Ala Gln Pro Asn Ala Ile Leu Glu Lys Val Phe
 85 90 95
 Ile Ser Ile Thr Lys Tyr Pro Asp Lys Lys Arg Leu Glu Gly Leu Ser
 100 105 110
 Lys Gln Leu Asp Trp Asn Val Arg Lys Ile Gln Cys Trp Phe Arg His
 115 120 125

Arg Arg Asn Gln Asp Lys Pro Pro Thr Leu Thr Lys Phe Cys Glu Ser
 130 135 140
 Met *
 145

<210> 1794
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 1794
 Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
 1 5 10 15
 Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Asp Lys
 20 25 30
 Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly
 35 40 45
 His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp
 50 55 60
 Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Ile Leu Ser Cys Cys Cys
 65 70 75 80
 Val Cys His His Arg Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg
 85 90 95
 Gln His Glu Ile Asn Leu Ile Ala Tyr Arg Glu Ala His Asn Tyr Ser
 100 105 110
 Ala Leu Pro Phe Tyr Phe Arg Phe Leu Pro Asn Tyr Leu Leu Pro Pro
 115 120 125
 Tyr Glu Glu Val Val Asn Arg Pro Pro Thr Pro Pro Pro Pro Tyr Ser
 130 135 140
 Ala Phe Gln Leu Gln Gln Gln
 145 150 151

<210> 1795
 <211> 177
 <212> PRT
 <213> Homo sapiens

<400> 1795
 Met Ala Ala Leu Ala Ala Ala Lys Lys Val Trp Ser Ala Arg Arg
 1 5 10 15
 Leu Leu Val Leu Leu Phe Thr Pro Leu Ala Leu Leu Pro Val Val Phe
 20 25 30
 Ala Leu Pro Pro Lys Glu Gly Arg Cys Leu Phe Val Ile Leu Leu Met
 35 40 45
 Ala Val Tyr Trp Cys Thr Glu Ala Leu Pro Leu Ser Val Thr Ala Leu
 50 55 60
 Leu Pro Ile Val Leu Phe Pro Phe Met Gly Ile Leu Pro Ser Asn Lys
 65 70 75 80
 Val Cys Pro Gln Tyr Phe Leu Asp Thr Asn Phe Leu Phe Leu Ser Gly
 85 90 95
 Leu Ile Met Ala Ser Ala Ile Glu Glu Trp Asn Leu His Arg Arg Ile
 100 105 110
 Ala Leu Lys Ile Leu Met Leu Val Gly Val Gln Pro Ala Arg Leu Ile

```

      115              120              125
Leu Gly Met Met Val Thr Thr Ser Phe Leu Ser Met Trp Leu Ser Asn
      130              135              140
Thr Ala Ser Thr Ala Met Met Leu Pro Ile Ala Asn Ala Ile Leu Lys
145              150              155              160
Ser Leu Phe Gly Gln Lys Glu Val Arg Lys Asp Pro Gln Pro Gly Glu
      165              170              175 176

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<210> 1796
<211> 98
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(98)
<223> Xaa = any amino acid or nothing

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<400> 1796
Met His Pro Leu Pro Gly Tyr Trp Ser Cys Tyr Cys Leu Leu Leu Leu
 1              5              10              15
Phe Ser Leu Gly Val Gln Gly Ser Leu Gly Ala Pro Ser Ala Ala Pro
      20              25              30
Glu Gln Val His Leu Ser Tyr Pro Gly Glu Pro Gly Ser Met Thr Val
      35              40              45
Thr Trp Thr Thr Trp Val Pro Thr Arg Ser Glu Val Gln Phe Gly Leu
      50              55              60
Gln Pro Ser Gly Pro Leu Pro Leu Arg Ala Gln Gly Thr Phe Val Pro
      65              70              75              80
Phe Val Asp Xaa Gly Ile Leu Arg Arg Lys Leu Tyr Ile His Arg Val
      85              90              95
Thr Leu
98

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<210> 1797
<211> 96
<212> PRT
<213> Homo sapiens

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<400> 1797
Met Phe Leu Trp Leu Phe Leu Ile Leu Ser Ala Leu Ile Ser Ser Thr
 1              5              10              15
Asn Ala Asp Ser Asp Ile Ser Val Glu Ile Cys Asn Val Cys Ser Cys
      20              25              30
Val Ser Val Glu Asn Val Leu Tyr Val Asn Cys Glu Lys Val Ser Val
      35              40              45
Tyr Arg Pro Asn Gln Leu Lys Pro Pro Trp Ser Asn Phe Tyr His Leu
      50              55              60
Asn Phe Gln Asn Asn Phe Leu Asn Ile Leu Tyr Pro Asn Thr Phe Leu
      65              70              75              80
Asn Phe Ser His Ala Val Ser Leu His Leu Gly Asn Asn Lys Leu Gln
      85              90              95 96

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<210> 1798
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1798
 Met Arg Pro Ala Leu Ala Val Gly Leu Val Phe Ala Gly Cys Cys Ser
 1 5 10 15
 Asn Val Ile Phe Leu Glu Leu Leu Ala Arg Lys His Pro Gly Cys Gly
 20 25 30
 Asn Ile Val Thr Phe Ala Gln Phe Leu Phe Ile Ala Val Glu Gly Phe
 35 40 45
 Leu Phe Glu Ala Asp Leu Gly Arg Lys Pro Pro Ala Ile Pro Ile Arg
 50 55 60
 Tyr Tyr Ala Ile Met Val Thr Met Phe Phe Thr Val Ser Val Val Asn
 65 70 75 80
 Asn Tyr Ala Leu Asn Leu Asn Ile Ala Met Pro
 85 90 91

<210> 1799
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1799
 Met Arg Ser Leu Val Trp Val Leu Ile Gln Gln Leu Thr Pro Leu Tyr
 1 5 10 15
 Lys Gly Glu Thr Trp Thr Gln Thr Cys Thr Glu Asp His Val Thr Met
 20 25 30
 Lys Ala Glu Ile Arg Val Met Leu Leu Glu Ala Arg Glu Asp Cys Gln
 35 40 45
 Leu Met Thr Lys Arg Ser Gln Glu Thr Gly Leu Gln Arg Ile Leu Pro
 50 55 60
 Glu Gly Ser Gln Lys Glu Pro Thr Leu Thr Thr Pro *
 65 70 75 76

<210> 1800
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 1800
 Met Ser Leu Lys Met Leu Ile Ser Arg Asn Lys Leu Ile Leu Leu Leu
 1 5 10 15
 Gly Ile Val Phe Phe Glu Arg Gly Lys Ser Ala Thr Leu Ser Leu Pro
 20 25 30
 Lys Ala Pro Ser Cys Gly Gln Ser Leu Val Lys Val Gln Pro Trp Asn

```

      35      40      45
Tyr Phe Asn Ile Phe Ser Arg Ile Leu Gly Gly Ser Gln Val Glu Lys
      50      55      60
Gly Ser Tyr Pro Trp Gln Val Ser Leu Lys Gln Arg Gln Lys His Ile
      65      70      75      80
Cys Gly Gly Ser Ile Val Ser Pro Gln Trp Val Ile Thr Ala Ala His
      85      90      95
Cys Ile Ala Asn Arg Asn Ile Val Ser Thr Leu Asn Val Thr Ala Gly
      100      105      110
Glu Tyr Asp Leu Ser Gln Thr Asp Pro Gly Glu Gln Thr Leu Thr Ile
      115      120      125
Glu Thr Val Ile Ile His Pro His Phe Ser Thr Lys Lys Pro Met Asp
      130      135      140
Tyr Asp Ile Ala Leu Leu Lys Met Ala Gly Ala Phe Gln Phe Gly His
      145      150      155      160
Phe Val Gly Pro Ile Cys Leu Pro Glu Leu Arg Glu Gln Phe Glu Ala
      165      170      175
Gly Phe Ile Cys Thr Thr
      180      182

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<210> 1801
 <211> 202
 <212> PRT
 <213> Homo sapiens

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      <400> 1801
Met Thr Glu Ala Thr Phe Asp Thr Leu Arg Leu Trp Leu Ile Ile Leu
      1      5      10      15
Leu Cys Ala Leu Arg Leu Ala Met Met Arg Ser His Leu Gln Ala Tyr
      20      25      30
Leu Asn Leu Ala Gln Lys Cys Val Asp Gln Met Lys Lys Glu Ala Gly
      35      40      45
Arg Ile Ser Thr Val Glu Leu Gln Lys Met Val Ala Arg Val Phe Tyr
      50      55      60
Tyr Leu Cys Val Ile Ala Leu Gln Tyr Val Ala Pro Leu Val Met Leu
      65      70      75      80
Leu His Thr Thr Leu Leu Leu Lys Thr Leu Gly Asn His Ser Trp Gly
      85      90      95
Ile Tyr Pro Glu Ser Ile Ser Thr Leu Pro Val Asp Asn Ser Leu Leu
      100      105      110
Ser Asn Ser Val Tyr Ser Glu Leu Pro Ser Ala Glu Gly Lys Met Lys
      115      120      125
His Asn Ala Arg Gln Gly Pro Ala Val Pro Pro Gly Met Gln Ala Tyr
      130      135      140
Gly Ala Ala Pro Phe Glu Asp Leu Gln Leu Asp Phe Thr Glu Met Pro
      145      150      155      160
Lys Cys Gly Asp Leu Ile Pro Arg Phe Gly Leu Pro Leu Arg Ile Gly
      165      170      175
Ser Asp Asn Gly Leu Ala Phe Val Ala Asp Leu Val Gln Lys Thr Ala
      180      185      190
Lys Trp Lys Gly Pro Gln Ile Val Val Leu
      195      200      202

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<210> 1802

<211> 172
 <212> PRT
 <213> Homo sapiens

<400> 1802

Met	Asn	Asn	Phe	Arg	Ala	Thr	Ile	Leu	Phe	Trp	Ala	Ala	Ala	Ala	Trp
1				5					10					15	
Ala	Lys	Ser	Gly	Lys	Pro	Ser	Gly	Glu	Met	Asp	Glu	Val	Gly	Val	Gln
			20					25					30		
Lys	Cys	Lys	Asn	Ala	Leu	Lys	Leu	Pro	Val	Leu	Glu	Val	Leu	Pro	Gly
			35				40					45			
Gly	Gly	Trp	Asp	Asn	Leu	Arg	Asn	Val	Asp	Met	Gly	Arg	Val	Met	Glu
			50			55				60					
Leu	Thr	Tyr	Ser	Asn	Cys	Arg	Thr	Thr	Glu	Asp	Gly	Gln	Tyr	Ile	Ile
65				70					75					80	
Pro	Asp	Glu	Ile	Phe	Thr	Ile	Pro	Gln	Lys	Gln	Ser	Asn	Leu	Glu	Met
				85				90					95		
Asn	Ser	Glu	Ile	Leu	Glu	Ser	Trp	Ala	Asn	Tyr	Gln	Ser	Ser	Thr	Ser
			100					105					110		
Tyr	Ser	Ile	Asn	Thr	Glu	Leu	Ser	Leu	Phe	Ser	Lys	Val	Asn	Gly	Lys
			115				120					125			
Phe	Ser	Thr	Glu	Phe	Gln	Arg	Met	Lys	Thr	Leu	Gln	Val	Lys	Asp	Gln
			130			135					140				
Ala	Ile	Thr	Thr	Arg	Val	Gln	Val	Arg	Asn	Leu	Val	Tyr	Thr	Val	Lys
145				150					155						160
Ile	Asn	Pro	Thr	Leu	Glu	Leu	Ser	Ser	Gly	Phe	Arg				
				165					170		172				

<210> 1803
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1803

Met	Ser	Leu	Arg	Leu	Gly	Pro	Ala	Trp	Arg	His	Leu	Thr	Cys	Leu	Gly
1				5					10					15	
Thr	Lys	His	Ser	Lys	Ala	Asn	Ser	Val	Leu	Ala	Ser	Gln	His	Ala	Gly
			20					25					30		
Phe	Phe	Val	Ala	Gln	Gly	Arg	Trp	Ala	Ile	His	Arg	Ala	Phe	Ser	Ser
			35				40					45			
Arg	Thr	Ser	Pro	Thr	Pro	Pro	Arg	Gly	Pro	Leu	Leu	Leu	Pro	Gly	Arg
			50			55				60					
His	Pro	Leu	Leu	Ser	Arg	Arg	Arg	Ala	Gln	Ala	Ile	Arg	Ser	Ser	Thr
65				70					75					80	
Arg	Pro	Ser	Leu	Pro	Ala	His	Leu	Phe	Lys	Pro	Ala	Pro	Ala	Ile	Ala
				85				90					95		
Leu	Ile	Val	Ser	Pro	Leu	Arg	Phe	Pro	Arg	Arg	Thr	Ser	Pro	Cys	His
			100					105					110		
Leu	Ser	Gly	Pro	Pro	Ala	Pro	Pro	Cys	Arg	Thr	Leu	His	Thr	Leu	Leu
			115				120					125			
Arg	Pro	Val	Cys	Val	Val	Arg	Arg	Thr	Pro	Pro	Val	Phe	Phe	Thr	Ser
			130			135					140				
Phe	Thr	Pro	Ala	Arg	Ala	Ala	Val	Ala	Ser	His	Pro	Thr	Pro		
145				150					155				158		

<210> 1804
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1804
 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1 5 10 15
 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
 20 25 30
 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
 35 40 45
 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
 50 55 60
 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65 70 75 80
 Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
 85 90 95
 Ala Arg Val Gln Ala Leu
 100 102

<210> 1805
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1805
 Met Ala Asp Ser Val Leu Thr Leu Val Phe Thr Ser Cys Leu Leu Ser
 1 5 10 15
 Glu Leu Ser Leu Val Cys Ser Asp Phe Arg Pro Thr Pro Ile Ser Tyr
 20 25 30
 Gln Ser Arg Tyr Gly Ser Gly Asp Gly Trp Ile Arg Cys Lys Ser Glu
 35 40 45
 Val Arg Glu Thr Gln *
 50 53

<210> 1806
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1806
 Met Leu Ser Val Lys Arg Phe Arg Ala Met Val Met Phe Phe Met Ala
 1 5 10 15
 Met Val Ala Met Met Lys Asn Lys Cys Gln Gln Thr Asn Glu Ala Lys
 20 25 30
 Phe Cys Val His Met Tyr Leu His Phe Tyr Phe Ser Ser His Ser Ser
 35 40 45
 Ala Val Cys Ile Ser Ser Pro Leu
 50 55 56

<210> 1807
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1807
 Met Gln Ser Met Ile Asn Met Ile Val Ser Leu Leu Gly Leu Val Ala
 1 5 10 15
 Thr Val Thr Leu Ile Pro Ala Phe Arg Gly His Phe Ile Ala Ala Arg
 20 25 30
 Leu Gly Gly Gln Ser Leu Gly Lys Thr Ser Arg Gln His Met *
 35 40 45 46

<210> 1808
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1808
 Met Ala Ala Ser Leu Leu Ala Val Leu Leu Leu Leu Leu Glu Arg
 1 5 10 15
 Gly Met Phe Ser Ser Pro Ser Pro Pro Pro Ala Leu Leu Glu Lys Val
 20 25 30
 Phe Gln Tyr Ile Asp Leu His Gln Asp Glu Phe Val Gln Thr Leu Lys
 35 40 45
 Glu Trp Val Ala Ile Glu Ser Asp Ser Val Gln Pro Val Pro Arg Phe
 50 55 60
 Arg Gln Glu Leu Phe Arg Met Met Ala Val Ala Ala Asp Thr Leu Gln
 65 70 75 80
 Arg Leu Gly Ala Arg Val Ala Ser Val Asp Met Gly Pro Gln Gln Leu
 85 90 95
 Pro Asp Gly Gln Ser Leu Pro Ile Pro Pro Val Ile Leu Ala Glu Leu
 100 105 110
 Gly Ser Asp Pro Thr Lys Gly
 115 119

<210> 1809
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1809
 Met Ser Arg Ser His Val Ala Leu Leu Gly Leu Ser Leu Leu Leu Met
 1 5 10 15
 Leu Leu Leu Tyr Ala Gly Leu Pro Ser Pro Pro Glu Gln Thr Ser Cys
 20 25 30
 Leu Trp Gly Asp Pro Asn Val Thr Val Leu Ala Val Ser Thr Pro Ala
 35 40 45
 Asn Ser Pro Met Phe Tyr Leu Glu Gly Leu Pro Leu His Leu Ala His

```

      50      55      60
Arg Val Asp Val Ile Pro Leu Ser Ser Leu Gly Pro Leu Val Ser Pro
 65      70      75      80
Leu Arg Cys Gln Ala Leu Pro Pro Arg Leu Ser
      85      90  91

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<210> 1810
<211> 58
<212> PRT
<213> Homo sapiens

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<400> 1810
Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
 1      5      10      15
Leu Ser Val Leu Ala Tyr Glu Gln Arg Pro Pro Leu Gly Pro Gly Thr
      20      25      30
Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Lys Ala Ala Ala Val Pro
      35      40      45
Val Ala Met Gly Leu Gly Asp Gln Arg Tyr
      50      55      58

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<210> 1811
<211> 48
<212> PRT
<213> Homo sapiens

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```

<400> 1811
Met Ala Ser Ala Ser Phe Ser Leu Leu Ile Cys Gly Phe Leu Ala Ser
 1      5      10      15
Leu Ser Leu Gln Arg Ile Glu Glu Leu Gly Leu Gly Leu Gly Leu Gly
      20      25      30
Phe Gly Leu Arg Glu Cys Cys Gly Trp Phe Gly Leu Leu Ser Leu Val
      35      40      45      48

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<210> 1812
<211> 84
<212> PRT
<213> Homo sapiens

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```

<400> 1812
Met Lys Val Leu Leu Ala Val Ala Leu Ile Ala Arg Thr Val Phe Phe
 1      5      10      15
Leu Leu Leu Ala Gly Pro Ser Ala Ala Asp Asp Lys Lys Lys Gly Pro
      20      25      30
Lys Val Thr Val Lys Val Tyr Phe Asp Leu Arg Ile Gly Asp Glu Asp
      35      40      45
Val Arg Arg Glu Ile Phe Gly Leu Phe Gly Lys Thr Ala Pro Lys Thr
      50      55      60

```

Glu Asp Asn Phe Val Ala Leu Ala Thr Gly Gln Lys Gly Phe Gly Tyr
 65 70 75 80
 Lys Asn Ser *
 83

<210> 1813
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1813
 Met Ala Ala Ala Asp Asp Thr Ile Leu Gly Phe Arg Ala Ala Leu Leu
 1 5 10 15
 Ile Leu Val Ala Ala Ala Ala Leu Ser Pro Lys Val Ala Cys Arg
 20 25 30
 Val Gly Thr Val Arg Arg Arg Glu Thr Pro Gln Pro Ser Ala
 35 40 45 46

<210> 1814
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1814
 Met Ile Ile Tyr Leu Thr Phe Pro Val Ala Met Phe Trp Val Ser Asn
 1 5 10 15
 Gln Ala Glu Trp Phe Glu Asp Asp Val Ile Gln Arg Lys Arg Glu Leu
 20 25 30
 Trp Pro Pro Glu Lys Leu Gln Glu Ile Glu Glu Phe Lys Glu Arg Leu
 35 40 45
 Arg Lys Arg Arg Glu Glu Lys Leu Leu Arg Asp Ala Gln Gln Asn Ser
 50 55 60 64
 *

<210> 1815
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 1815
 Met Phe Lys Ser Lys Leu Leu Asn Phe Tyr Ile Phe Val Asn Cys Met
 1 5 10 15
 Asn Phe Leu Met Leu Ser Ile Ala Ser Phe Asn Pro Phe Trp Ser Glu
 20 25 30
 Ile Ile Val Cys Asn Ile Gln Phe Phe Tyr Tyr Thr Leu Ser Ser Arg
 35 40 45
 Val His Val Gln Asn Val Gln Val Cys Tyr Thr Gly Ile His Val Pro
 50 55 60
 Cys Trp Phe Ala Ala Pro Ile Asn Ser Ser Phe Thr Leu Gly Ile Ser

```

      65              70              75              80
Pro Asn Ala Ile Pro Phe Ile Val Pro His Pro Gln Thr Gly Pro Asn
      85              90              95
Val Arg Cys Ser
      100

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<210> 1816

<211> 115

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(115)

<223> Xaa = any amino acid or nothing

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      <400> 1816
Met Phe Cys Phe Leu Val Ser Val Leu Tyr Ser Lys Ala Lys Leu Ala
  1              5              10              15
Ser Ala Cys Gly Gly Ile Ile Tyr Phe Leu Ser Tyr Val Pro Tyr Met
      20              25              30
Tyr Val Ala Ile Arg Glu Glu Val Ala His Asp Lys Ile Thr Ala Phe
      35              40              45
Glu Lys Cys Ile Ala Ser Leu Met Ser Thr Thr Ala Phe Gly Leu Gly
      50              55              60
Ser Lys Tyr Phe Ala Leu Tyr Glu Val Pro Gly Val Gly Ile Gln Trp
      65              70              75              80
His Thr Phe Ser Gln Ser Pro Val Glu Gly Glu Asp Leu Asn Leu Pro
      85              90              95
Pro Pro Pro Pro Met Met Pro Ala Pro Xaa Val Val Tyr Gly Ile Leu
      100              105              110
Thr Lys *
      114

```

<210> 1817

<211> 144

<212> PRT

<213> Homo sapiens

```

      <400> 1817
Met Val Leu Gly Leu Leu Val Gln Ile Trp Ala Leu Gln Glu Ala Ser
  1              5              10              15
Ser Leu Ser Val Gln Gln Gly Pro Asn Leu Leu Gln Val Arg Gln Gly
      20              25              30
Ser Gln Ala Thr Leu Val Cys Gln Val Asp Gln Ala Thr Ala Trp Glu
      35              40              45
Arg Leu Arg Val Lys Trp Thr Lys Asp Gly Ala Ile Leu Cys Gln Pro
      50              55              60
Tyr Ile Thr Asn Gly Ser Leu Ser Leu Gly Val Cys Gly Pro Gln Gly
      65              70              75              80
Arg Leu Ser Trp Gln Ala Pro Ser His Leu Thr Leu Gln Leu Asp Pro
      85              90              95
Val Ser Leu Asn His Ser Gly Ala Tyr Val Cys Trp Ala Ala Val Glu
      100              105              110

```

Ile Pro Glu Leu Glu Glu Ala Glu Gly Asn Ile Thr Arg Leu Phe Val
 115 120 125
 Asp Pro Asp Asp Pro Thr Gln Asn Arg Asn Arg Ile Ala Ser Phe Pro
 130 135 140 144

<210> 1818
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 1818
 Met Gln Ala Asp Arg Gly Gly Val Leu Phe Leu Val Ala Leu Pro Gly
 1 5 10 15
 Leu Trp Glu Thr Val Leu Arg His Pro Gly Ala Ser Pro Glu Pro Val
 20 25 30
 Ser Leu His Thr Gly Leu Ala Ala Glu Pro Leu Leu Gly Trp Arg Ala
 35 40 45
 Glu Val Ala Thr Ala Ala Gly Leu Gln Asp Arg Arg Ile Gly Arg Arg
 50 55 60
 Ser Leu Pro Ala Thr Leu Pro Pro Pro Phe Pro Gln Ala Gly Asp Leu
 65 70 75 80
 Arg Glu Ser Ile Leu Leu Leu Pro Cys Arg Glu Ser Arg Ser Thr Ser
 85 90 95
 Trp Leu Ser Pro Tyr Trp Val Pro Glu Ile Pro Gly Thr Leu His Asp
 100 105 110
 Arg Gly Arg
 115

<210> 1819
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1819
 Met Pro Trp Leu Leu Ser Ala Pro Lys Leu Val Pro Ala Val Ala Asn
 1 5 10 15
 Val Arg Gly Leu Ser Gly Cys Met Leu Cys Ser Gln Arg Arg Tyr Ser
 20 25 30
 Leu Gln Pro Val Pro Glu Arg Arg Ile Pro Asn Arg Tyr Leu Gly Gln
 35 40 45
 Pro Ser Pro Phe Thr His Pro His Leu Leu Arg Pro Asp Ser Asn Ser
 50 55 60
 Cys Trp Glu Val Gly *
 65 69

<210> 1820
 <211> 635
 <212> PRT
 <213> Homo sapiens

<400> 1820

Met	Leu	Arg	Ser	Leu	Leu	Val	Tyr	Met	Leu	Phe	Leu	Leu	Val	Thr	Leu
1				5					10					15	
Leu	Ala	Ser	Tyr	Gly	Asp	Ala	Ser	Cys	His	Gly	His	Ala	Tyr	Arg	Leu
			20					25					30		
Gln	Ser	Ala	Ile	Lys	Gln	Glu	Leu	His	Ser	Arg	Ala	Phe	Leu	Ala	Ile
		35					40					45			
Thr	Arg	Ser	Glu	Glu	Leu	Trp	Pro	Trp	Met	Ala	His	Val	Leu	Leu	Pro
	50					55					60				
Tyr	Val	His	Gly	Asn	Gln	Ser	Ser	Pro	Glu	Leu	Gly	Pro	Pro	Arg	Leu
65					70					75					80
Arg	Gln	Val	Arg	Leu	Gln	Glu	Ala	Leu	Tyr	Pro	Asp	Pro	Pro	Gly	Pro
				85					90					95	
Arg	Val	His	Thr	Cys	Ser	Ala	Ala	Gly	Gly	Phe	Ser	Thr	Ser	Asp	Tyr
			100					105					110		
Asp	Val	Gly	Trp	Glu	Ser	Pro	His	Asn	Gly	Ser	Gly	Thr	Trp	Ala	Tyr
	115						120					125			
Ser	Ala	Pro	Asp	Leu	Leu	Gly	Ala	Trp	Ser	Trp	Gly	Ser	Cys	Ala	Val
	130					135					140				
Tyr	Asp	Ser	Gly	Gly	Tyr	Val	Gln	Glu	Leu	Gly	Leu	Ser	Leu	Glu	Glu
145					150					155					160
Ser	Arg	Asp	Arg	Leu	Arg	Phe	Leu	Gln	Leu	His	Asn	Trp	Leu	Asp	Asn
				165					170					175	
Arg	Ser	Arg	Ala	Val	Phe	Leu	Glu	Leu	Thr	Arg	Tyr	Ser	Pro	Ala	Val
			180					185					190		
Gly	Leu	His	Ala	Ala	Val	Thr	Leu	Arg	Leu	Glu	Phe	Pro	Ala	Ala	Gly
	195						200					205			
Arg	Ala	Leu	Ala	Ala	Leu	Ser	Val	Arg	Pro	Phe	Ala	Leu	Arg	Arg	Leu
	210					215					220				
Ser	Ala	Gly	Leu	Ser	Leu	Pro	Leu	Leu	Thr	Ser	Val	Cys	Leu	Leu	Leu
225					230					235					240
Phe	Ala	Val	His	Phe	Ala	Val	Ala	Glu	Ala	Arg	Thr	Trp	His	Arg	Glu
				245					250					255	
Gly	Arg	Trp	Arg	Val	Leu	Arg	Leu	Gly	Ala	Trp	Ala	Arg	Trp	Leu	Leu
			260					265					270		
Val	Ala	Leu	Thr	Ala	Ala	Thr	Ala	Leu	Val	Arg	Leu	Ala	Gln	Leu	Gly
	275						280					285			
Ala	Ala	Asp	Arg	Gln	Trp	Thr	Arg	Phe	Val	Arg	Gly	Arg	Pro	Arg	Arg
	290					295					300				
Phe	Thr	Ser	Phe	Asp	Gln	Val	Ala	His	Val	Ser	Ser	Ala	Ala	Arg	Gly
305					310					315					320
Leu	Ala	Ala	Ser	Leu	Leu	Phe	Leu	Leu	Leu	Val	Lys	Ala	Ala	Gln	His
			325						330					335	
Val	Arg	Phe	Val	Arg	Gln	Trp	Ser	Val	Phe	Gly	Lys	Thr	Leu	Cys	Arg
			340					345					350		
Ala	Leu	Pro	Glu	Leu	Leu	Gly	Val	Thr	Leu	Gly	Leu	Val	Val	Leu	Gly
	355						360					365			
Val	Ala	Tyr	Ala	Gln	Leu	Ala	Ile	Leu	Leu	Val	Ser	Ser	Cys	Val	Asp
	370					375					380				
Ser	Leu	Trp	Ser	Val	Ala	Gln	Ala	Leu	Leu	Val	Leu	Cys	Pro	Gly	Thr
385					390					395					400
Gly	Leu	Ser	Thr	Leu	Cys	Pro	Ala	Glu	Ser	Trp	His	Leu	Ser	Pro	Leu
				405					410					415	
Leu	Cys	Val	Gly	Leu	Trp	Ala	Leu	Arg	Leu	Trp	Gly	Ala	Leu	Arg	Leu
			420					425				430			
Gly	Ala	Val	Ile	Leu	Arg	Trp	Arg	Tyr	His	Ala	Leu	Arg	Gly	Glu	Leu
	435						440					445			

```

Tyr Arg Pro Ala Trp Glu Pro Gln Asp Tyr Glu Met Val Glu Leu Phe
  450                      455                      460
Leu Arg Arg Leu Arg Leu Trp Met Gly Leu Ser Lys Val Lys Glu Phe
  465                      470                      475                      480
Arg His Lys Val Arg Phe Glu Gly Met Glu Pro Leu Pro Ser Arg Ser
                      485                      490                      495
Ser Arg Gly Ser Lys Val Ser Pro Asp Val Pro Pro Pro Ser Ala Gly
                      500                      505                      510
Ser Asp Ala Ser His Pro Ser Thr Ser Ser Ser Gln Leu Asp Gly Leu
                      515                      520                      525
Ser Val Ser Leu Gly Arg Leu Gly Thr Arg Cys Glu Pro Glu Pro Ser
                      530                      535                      540
Arg Leu Gln Ala Val Phe Glu Ala Leu Leu Thr Gln Phe Asp Arg Leu
  545                      550                      555                      560
Asn Gln Ala Thr Glu Asp Val Tyr Gln Leu Glu Gln Gln Leu His Ser
                      565                      570                      575
Leu Gln Gly Arg Arg Ser Ser Arg Ala Pro Ala Gly Ser Ser Arg Gly
                      580                      585                      590
Pro Ser Pro Gly Leu Arg Pro Ala Leu Pro Ser Arg Leu Ala Arg Ala
                      595                      600                      605
Ser Arg Gly Val Asp Leu Ala Thr Gly Pro Ser Arg Thr Pro Leu Arg
  610                      615                      620
Ala Lys Asn Lys Val His Pro Ser Ser Thr *
  625                      630                      634

```

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<210> 1821
<211> 84
<212> PRT
<213> Homo sapiens

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```

<400> 1821
Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
  1                      5                      10                      15
Leu Thr Gly Leu Met Leu Ser Leu Tyr Thr Leu His Val Lys Ala Ala
                      20                      25                      30
Arg Ala Arg Asn Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Val
                      35                      40                      45
Ile Ser Cys Thr Arg Val Phe Tyr Ser Lys Leu Pro Ala Asp Thr Leu
                      50                      55                      60
Asp Leu Cys Pro Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
  65                      70                      75                      80
Cys Leu Pro Gly
                      84

```

```

<210> 1822
<211> 108
<212> PRT
<213> Homo sapiens

```

```

<400> 1822
Met Ala Leu Asp Phe Val Asn Val Leu Leu Cys Gln Leu Ala Glu Val
  1                      5                      10                      15
Thr Leu Gly Val Leu Arg Glu Glu Gly Ala Ser Leu Leu Val Ala Leu

```



```

      20      25      30
Gly Ser Ala Leu Phe Pro Ser Ala Ala Ala Val Gly Lys Gln Gly Ser
      35      40      45
Met Gly Val Thr Ser His Met Gln Cys Pro Val Cys Gln His Pro Arg
      50      55      60
Asp Val Leu Leu Ala Ser Pro Val Ser His Ser His Ala Cys Gln Pro
      65      70      75      80
Gln Pro Ala Gly Cys Ser Asn Cys His Leu Gly His Leu Thr Arg Ser
      85      90      95
Pro Pro Phe Gln Gly Leu Leu Pro Leu Leu Gln *
      100      105      107

```

<210> 1823
 <211> 74
 <212> PRT
 <213> Homo sapiens

```

      <400> 1823
Met Gly Val Val Leu Tyr Val Met Leu Cys Ala Ser Leu Pro Phe Asp
  1      5      10      15
Asp Thr Asp Ile Pro Lys Met Leu Trp Gln Gln Gln Lys Gly Val Ser
      20      25      30
Phe Pro Thr His Leu Ser Ile Ser Ala Asp Cys Gln Asp Leu Leu Lys
      35      40      45
Arg Leu Leu Glu Pro Asp Met Ile Leu Arg Pro Ser Ile Glu Glu Val
      50      55      60
Ser Trp His Pro Trp Leu Ala Ser Thr *
      65      70      73

```

<210> 1824
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

      <400> 1824
Met Ser Leu Ser Cys Thr Gly Phe Ala Leu Glu Lys Arg Cys Ala Gly
  1      5      10      15
Trp Val Trp Trp Leu Thr Pro Val Ile Pro Ala Leu Leu Gly Gly Gln
      20      25      30
Gly Arg Gln Ile Met Ile Met Val Arg Ser Leu Arg Pro Ala Gly Pro
      35      40      45
Thr Trp Gly Asn Leu Ser Thr Thr Lys Thr
      50      55      58

```

<210> 1825
 <211> 225
 <212> PRT
 <213> Homo sapiens

<400> 1825

```

Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro
 1      5      10      15
Trp Thr Arg Leu Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu
      20      25      30
Cys His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly
      35      40      45
Arg Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys
      50      55      60
Ala Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu
      65      70      75      80
Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser
      85      90      95
Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser
      100      105      110
Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser
      115      120      125
Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu
      130      135      140
Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu
      145      150      155      160
Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu
      165      170      175
His Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys
      180      185      190
Thr Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Leu Gln Asp
      195      200      205
Ile Thr Val Ala Phe Leu Asp Trp Ala Leu Ala Leu Ile Ser Gln Gln
      210      215      220      224
*
```

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<210> 1826
<211> 119
<212> PRT
<213> Homo sapiens
```

```

<400> 1826
Met Tyr Arg Glu Val Cys Ser Ile Arg Phe Leu Phe Thr Ala Val Ser
 1      5      10      15
Leu Leu Ser Leu Phe Leu Ser Ala Phe Trp Leu Gly Leu Leu Tyr Leu
      20      25      30
Val Ser Pro Leu Glu Asn Glu Pro Lys Glu Met Leu Thr Leu Ser Glu
      35      40      45
Tyr His Glu Arg Ala Arg Ser Gln Gly Gln Gln Leu Leu Gln Phe Gln
      50      55      60
Ala Glu Leu Asp Lys Leu His Lys Glu Ala Ser Leu Val Cys Gly Cys
      65      70      75      80
Pro Ser Leu Arg Glu Val Pro Ser Ser Ala Val Ser Arg Leu Glu Pro
      85      90      95
Pro Ser Ile Ala Gln Pro Leu Leu Ser Arg Leu Gln Leu Tyr Leu Ser
      100      105      110
Asp Pro Ser Ser Tyr Leu Val
      115      119
```

<210> 1827
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1827
 Met Lys Leu Met Arg Pro Leu Met Leu Leu Tyr Ile Ser Gln Leu Tyr
 1 5 10 15
 Met Leu Met Lys Arg Asn Ser Pro His Ile Gly Asp Cys Leu Ser Leu
 20 25 30
 Leu Phe Leu Gln Glu Lys Lys Gln Lys Glu Val Tyr Thr Leu Leu Ala
 35 40 45
 Met Met Gln Val Ser Phe Ile Leu Val *
 50 55 57

<210> 1828
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1828
 Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro
 1 5 10 15
 Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys
 20 25 30
 Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala
 35 40 45
 Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu
 50 55 60
 Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met
 65 70 75 80
 Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu
 85 90 95
 Arg Gln Val Tyr His Asn
 100 102

<210> 1829
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1829
 Met Arg Lys Ile Tyr Thr Thr Val Leu Phe Ala Asn Ile Tyr Leu Ala
 1 5 10 15
 Pro Leu Ser Leu Ile Val Ile Met Tyr Gly Arg Ile Gly Ile Ser Leu
 20 25 30
 Phe Arg Ala Ala Val Pro His Thr Gly Arg Lys Asn Gln Glu Gln Trp
 35 40 45
 His Val Val Ser Arg Lys Lys Gln Lys Ile Ile Lys Met Leu Leu Ile
 50 55 60
 Val Ala Leu Leu Phe Ile Leu Ser Trp Leu Pro Leu Trp Thr Leu Met
 65 70 75 80

Met Leu Ser Asp Tyr Ala Lys Pro
 85 88

<210> 1830
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 1830
 Met Lys Trp Arg Arg Lys Ser Ala Tyr Trp Lys Ala Leu Lys Val Phe
 1 5 10 15
 Lys Leu Pro Val Glu Phe Leu Leu Leu Leu Thr Val Pro Val Val Asp
 20 25 30
 Pro Asp Lys Asp Asp Gln Asn Trp Lys Arg Pro Leu Asn Cys Leu His
 35 40 45
 Leu Val Ile Ser Pro Leu Val Val Val Leu Thr Leu Gln Ser Gly Thr
 50 55 60
 Tyr Gly Val Tyr Glu Ile Gly Gly Leu Val Pro Val Trp Val Val Val
 65 70 75 80
 Val Ile Ala Gly Thr Ala Leu Ala Ser Val Thr Phe Phe Ala Thr Ser
 85 90 95
 Asp Ser Gln Pro Pro Arg Leu His Trp Leu Phe Ala Phe Leu Gly Phe
 100 105 110
 Leu Thr Ser Ala Leu Trp Ile Asn
 115 120

<210> 1831
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1831
 Met Phe Trp Arg Gly Trp Gly Ala Pro Leu Trp Ala Trp Pro Thr Leu
 1 5 10 15
 Leu Thr Pro Ile Lys Cys Ser Ser Leu Tyr Asp Ser Phe Phe Ser Pro
 20 25 30
 Thr Asp Ala Leu Gly Leu Glu Ser Leu Leu Gly Thr Ala Ser Leu Trp
 35 40 45
 Pro Leu Leu Leu Ser Leu Thr Glu Leu Pro Ala Leu Leu Gln Met *
 50 55 60 63

<210> 1832
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1832
 Met Gly Ile Lys His Phe Ser Gly Leu Phe Val Leu Leu Cys Ile Gly
 1 5 10 15
 Phe Gly Leu Ser Ile Leu Thr Thr Ile Gly Glu His Ile Val Tyr Arg

```

                20                25                30
Leu Leu Leu Pro Arg Ile Lys Asn Lys Ser Lys Leu Gln Tyr Trp Leu
              35              40              45
His Thr Ser Gln Arg Leu His Arg Ala Ile Asn Thr Ser Phe Ile Glu
              50              55              60
Glu Lys Gln Gln His Phe Lys Thr Lys Arg Val Glu Lys Arg Ser Asn
              65              70              75              80
Val Gly Pro Arg Gln Leu Thr Val Trp
                  85                  89

```

<210> 1833
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

    <400> 1833
Met Phe Leu Val Ser Ile Ile Cys Val Thr Leu Phe Phe Pro Ile Val
  1              5              10              15
Ala Leu Phe Asp Leu Tyr Ala Thr Leu Ala His Cys Val Tyr Ala Phe
              20              25              30
Ser Thr Asp Ser Leu Leu Pro Ala Val Met Leu Thr Ala Leu Pro Arg
              35              40              45
Ser Leu Phe Phe Ser Ser Ser Leu Ile Leu Ser Ser
          50              55              60

```

<210> 1834
 <211> 62
 <212> PRT
 <213> Homo sapiens

```

    <400> 1834
Met Val Pro Ala Ala Gly Ala Leu Leu Trp Val Leu Leu Leu Asn Leu
  1              5              10              15
Gly Pro Arg Ala Ala Gly Ala Gln Gly Leu Thr Gln Thr Pro Thr Glu
              20              25              30
Met Gln Arg Val Met Leu Arg Phe Gly Cys Ser Val Ile Cys Cys Tyr
              35              40              45
Cys Ile Ser Val Arg Thr Gly Arg Ser Arg Glu Thr Gly *
          50              55              60  61

```

<210> 1835
 <211> 71
 <212> PRT
 <213> Homo sapiens

```

    <400> 1835
Met Leu Leu Lys Ile Leu Lys Gly Cys Val Val Phe His His Leu Pro
  1              5              10              15
Cys Ser Thr Gln Val Tyr Lys Pro Ser Leu Gly Met Trp Gly Phe Leu
              20              25              30

```

```

Ser Pro Leu Trp Glu Val Val Phe Cys His Thr Pro Cys Phe Arg Ala
      35              40              45
Gln Pro Gln Leu Asp Arg Ala Gly Ser Ser Phe Leu Ile Tyr Pro Ser
      50              55              60
Pro His Ser Thr Ser Asn *
      65              70

```

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<210> 1836
<211> 110
<212> PRT
<213> Homo sapiens

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<400> 1836
Met Leu Met Tyr Met Phe Tyr Val Leu Pro Phe Cys Gly Leu Ala Ala
  1      5      10      15
Tyr Ala Leu Thr Phe Pro Gly Cys Ser Trp Leu Pro Asp Trp Ala Leu
      20      25      30
Val Phe Ala Gly Gly Ile Gly Gln Ala Gln Phe Ser His Met Gly Ala
      35      40      45
Ser Met His Leu Arg Thr Pro Phe Thr Tyr Arg Val Pro Glu Asp Thr
      50      55      60
Trp Gly Cys Phe Phe Val Cys Asn Leu Leu Tyr Ala Leu Gly Pro His
      65      70      75      80
Leu Leu Ala Tyr Arg Cys Leu Gln Trp Pro Ala Phe Phe His Gln Pro
      85      90      95
Pro Pro Ser Asp Pro Leu Ala Leu His Lys Lys Gln His *
      100      105      109

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<210> 1837
<211> 91
<212> PRT
<213> Homo sapiens

```

```

<400> 1837
Met Leu Leu Leu Leu Thr Trp Pro Tyr Ile Leu Leu Gly Phe Leu Phe
  1      5      10      15
Cys Ala Phe Val Val Asn Gly Gly Ile Val Ile Gly Asp Arg Ser
      20      25      30
Ser His Glu Ala Cys Leu His Phe Pro Gln Leu Phe Tyr Phe Ser
      35      40      45
Phe Thr Leu Phe Phe Ser Phe Pro His Leu Leu Ser Pro Ser Lys Ile
      50      55      60
Lys Thr Phe Leu Ser Leu Val Trp Lys Arg Arg Ile Leu Phe Phe Val
      65      70      75      80
Val Thr Leu Val Ser Val Phe Leu Val Trp Asn
      85      90      91

```

```

<210> 1838
<211> 201
<212> PRT
<213> Homo sapiens

```

<400> 1838

Met	Pro	Ile	Gly	Leu	Arg	Gly	Leu	Met	Ile	Ala	Val	Met	Leu	Ala	Ala
1				5					10					15	
Leu	Met	Ser	Ser	Leu	Thr	Ser	Ile	Phe	Asn	Ser	Ser	Ser	Thr	Leu	Phe
			20					25					30		
Thr	Met	Asp	Ile	Trp	Arg	Arg	Leu	Arg	Pro	Arg	Ser	Gly	Glu	Arg	Glu
		35					40					45			
Leu	Leu	Leu	Val	Gly	Arg	Leu	Val	Ile	Val	Ala	Leu	Ile	Gly	Val	Ser
		50				55					60				
Val	Ala	Trp	Ile	Pro	Val	Leu	Gln	Asp	Ser	Asn	Ser	Gly	Gln	Leu	Phe
65					70				75					80	
Ile	Tyr	Met	Gln	Ser	Val	Thr	Ser	Ser	Leu	Ala	Pro	Pro	Val	Thr	Ala
			85					90					95		
Val	Phe	Val	Leu	Gly	Val	Phe	Trp	Arg	Arg	Ala	Asn	Glu	Gln	Gly	Ala
			100					105					110		
Phe	Trp	Gly	Leu	Ile	Ala	Gly	Leu	Val	Val	Gly	Ala	Thr	Arg	Leu	Val
		115					120					125			
Leu	Glu	Phe	Leu	Asn	Pro	Ala	Pro	Pro	Cys	Gly	Glu	Pro	Asp	Thr	Arg
		130				135					140				
Pro	Ala	Val	Leu	Gly	Ser	Ile	His	Tyr	Leu	His	Phe	Ala	Val	Ala	Leu
145					150				155					160	
Phe	Ala	Leu	Ser	Gly	Ala	Val	Val	Val	Ala	Gly	Ser	Leu	Leu	Thr	Pro
			165						170					175	
Pro	Pro	Gln	Ser	Val	Gln	Ile	Glu	Asn	Leu	Thr	Trp	Trp	Thr	Leu	Ala
			180					185					190		
Gln	Asp	Val	Pro	Leu	Gly	Thr	Lys	Ala							
		195					200	201							

<210> 1839

<211> 130

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(130)

<223> Xaa = any amino acid or nothing

<400> 1839

Met	Leu	Phe	Phe	Leu	Gln	Ser	Leu	Phe	Met	Leu	Ala	Thr	Val	Val	Leu
1				5					10					15	
Tyr	Phe	Ser	His	Leu	Lys	Glu	Tyr	Val	Ala	Ser	Met	Val	Phe	Ser	Leu
			20					25					30		
Ala	Leu	Gly	Trp	Thr	Asn	Met	Leu	Tyr	Tyr	Thr	Arg	Gly	Phe	Gln	Gln
		35					40					45			
Met	Gly	Ile	Tyr	Ala	Val	Met	Ile	Glu	Lys	Met	Ile	Leu	Arg	Asp	Leu
	50					55					60				
Cys	Arg	Phe	Met	Phe	Val	Tyr	Ile	Val	Phe	Leu	Phe	Gly	Phe	Ser	Thr
65					70				75					80	
Ala	Val	Val	Thr	Leu	Ile	Glu	Asp	Gly	Lys	Asn	Asp	Ser	Leu	Pro	Ser
			85						90					95	
Glu	Ser	Thr	Ser	His	Arg	Trp	Arg	Gly	Phe	Ser	Xaa	Thr	Pro	Leu	Xaa
			100					105					110		
Leu	Leu	His	Lys	Leu	Tyr	Ser	Thr	Cys	Leu	Glu	Leu	Ser	Asn	Ser	Thr
		115					120					125			

Xaa Asp
130

<210> 1840
<211> 47
<212> PRT
<213> Homo sapiens

<400> 1840
Met Asn Arg Val Met Arg Gly Leu Ala Ile Thr Thr Thr Cys Leu Leu
1 5 10 15
Ser Met Leu Gln Ala Ile Thr Ile Ser Pro Ser Ile Leu Trp Asn His
20 25 30
Ala Ala Val Gln Tyr Val His Gly His Ser Leu Val Gln Ala *
35 40 45 46

<210> 1841
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1841
Met Thr Ala Arg Leu Met Arg Ser Leu Leu Ala Ala Gln Leu Thr Phe
1 5 10 15
Val Tyr Arg Val Ala His Leu Met Asn Val Ala Gln Arg Ile Arg Gly
20 25 30
Asn Arg Pro Ile Lys Asn Glu Arg Leu Leu Ala Leu Leu Gly Asp Asn
35 40 45
Glu Lys Met Asn Leu Ser Asp Val Glu Leu Ile Pro Leu Pro Leu Glu
50 55 60
Pro Gln Val Lys Ile Arg Gly Ile Ile Pro Glu Thr Ala Thr Leu Phe
65 70 75 80
Lys Ser
82

<210> 1842
<211> 77
<212> PRT
<213> Homo sapiens

<400> 1842
Met Val Ala Asn Met Phe Tyr Ile Val Val Ile Met Ala Leu Val Leu
1 5 10 15
Leu Ser Phe Gly Val Pro Arg Lys Ala Ile Leu Tyr Pro His Glu Ala
20 25 30
Pro Ser Trp Thr Leu Ala Lys Asp Ile Val Phe His Pro Tyr Trp Met
35 40 45
Ile Phe Gly Glu Val Tyr Ala Tyr Glu Ile Asp Val Cys Ala Asn Asp
50 55 60
Ser Val Ile Pro Gln Ile Cys Gly Pro Ser Thr Arg Pro

65

70

75

77

<210> 1843
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1843
 Met Met His Asn Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu
 1 5 10 15
 Gly Ile Thr Val Val Gln Met Leu Ile Ser Val Thr Gly Leu Lys Gly
 20 25 30
 Val Glu Ala Gln Asn Gly Ser Glu Ser Glu Val Phe Val Gly Lys Tyr
 35 40 45
 Glu Thr Leu Val Phe Tyr Trp Pro Ser Leu Leu Cys Leu Ala Phe Leu
 50 55 60
 Leu Gly Arg Phe Leu His Met Phe Val Lys Ala Leu Arg Val His Leu
 65 70 75 80
 Gly Trp Glu Leu Gln Val Glu Glu Lys Ser Val Leu Glu Val His Gln
 85 90 95
 Gly Glu His Val Lys Gln Leu Leu Arg Ile Pro Arg Pro
 100 105 109

<210> 1844
 <211> 85
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(85)
 <223> Xaa = any amino acid or nothing

<400> 1844
 Met Thr Ile His Leu Cys Ser Asn Leu Met Cys His Phe Leu Gln Arg
 1 5 10 15
 Met Gly Thr Ile Leu Leu Cys Pro Asn Met Gln Pro His Gln Asn Leu
 20 25 30
 Thr Thr Val Ile Cys Ser Lys Gly Asn Leu Leu Arg Ala Val Lys Gly
 35 40 45
 Ser Lys Ser Leu Arg Asn Ala Arg Lys Tyr Pro Phe His His Pro Pro
 50 55 60
 Xaa Xaa Glu Pro Pro Asn Gly Gly Gln Thr Arg Xaa Gly Gly Ala Arg
 65 70 75 80
 Phe Lys Gln Pro Thr
 85

<210> 1845
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1845
 Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe
 1 5 10 15
 Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr
 20 25 30
 Leu Ser Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys
 35 40 45
 Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly
 50 55 60
 Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala
 65 70 75 80
 Leu Phe Asn Ser Leu Gln Gly Val Phe Ile Cys Cys Trp Phe Thr Ile
 85 90 95
 Leu Tyr Leu Pro Ser Gln Ser Thr Thr Val Ser Ser Ser Thr
 100 105 110

<210> 1846
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 1846
 Met Thr Glu Pro Pro Gly Ala Ser Ser His Leu Arg Gln Ala Leu Arg
 1 5 10 15
 Cys Cys Gln Trp Leu Ala Gly Ile Pro Ser Gln Trp Val Leu Phe Trp
 20 25 30
 Glu Val Leu Trp Lys Trp Val Leu Gln Thr Asp Ala Ala Trp Ser Pro
 35 40 45
 Gly Phe Ser Pro Leu Pro Arg Gly Met Tyr Gln His Pro Ala Leu Pro
 50 55 60
 Glu Met Pro Ser Pro Phe Leu Gly Ile Leu Arg Leu Glu Tyr Val Lys
 65 70 75 80
 Leu Leu Gly Leu Cys Met Cys Leu Ser Thr Gly Ser Ser *
 85 90 93

<210> 1847
 <211> 1300
 <212> PRT
 <213> Homo sapiens

<400> 1847
 Met Ala Trp Lys Thr Leu Pro Ile Tyr Leu Leu Leu Leu Ser Val
 1 5 10 15
 Phe Val Ile Gln Val Ser Ser Gln Asp Leu Ser Ser Cys Ala Gly
 20 25 30
 Arg Cys Gly Glu Gly Tyr Ser Arg Asp Ala Thr Cys Asn Cys Asp Tyr
 35 40 45
 Asn Cys Gln His Tyr Met Glu Cys Cys Pro Asp Phe Lys Arg Val Cys
 50 55 60
 Thr Ala Glu Leu Ser Cys Lys Gly Arg Cys Phe Glu Ser Phe Glu Arg
 65 70 75 80
 Gly Arg Glu Cys Asp Cys Asp Ala Gln Cys Lys Lys Tyr Asp Lys Cys

				85					90					95			
Cys	Pro	Asp	Tyr	Glu	Ser	Phe	Cys	Ala	Glu	Val	His	Asn	Pro	Thr	Ser		
			100					105					110				
Pro	Pro	Ser	Ser	Lys	Lys	Ala	Pro	Pro	Pro	Ser	Gly	Ala	Ser	Gln	Thr		
			115					120				125					
Ile	Lys	Ser	Thr	Thr	Lys	Arg	Ser	Pro	Lys	Pro	Pro	Asn	Lys	Lys	Lys		
			130			135						140					
Thr	Lys	Lys	Val	Ile	Glu	Ser	Glu	Glu	Ile	Thr	Glu	Glu	His	Ser	Val		
145					150					155					160		
Ser	Glu	Asn	Gln	Glu	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser		
			165						170					175			
Ser	Thr	Ile	Trp	Lys	Ile	Lys	Ser	Ser	Lys	Asn	Ser	Ala	Ala	Asn	Arg		
			180					185					190				
Glu	Leu	Gln	Lys	Lys	Leu	Lys	Val	Lys	Asp	Asn	Lys	Lys	Asn	Arg	Thr		
			195				200					205					
Lys	Lys	Lys	Pro	Thr	Pro	Lys	Pro	Pro	Val	Val	Asp	Glu	Ala	Gly	Ser		
			210			215					220						
Gly	Leu	Asp	Asn	Gly	Asp	Phe	Lys	Val	Thr	Thr	Pro	Asp	Thr	Ser	Thr		
225				230							235				240		
Thr	Gln	His	Asn	Lys	Val	Ser	Thr	Ser	Pro	Lys	Ile	Thr	Thr	Ala	Lys		
			245						250					255			
Pro	Ile	Asn	Pro	Arg	Pro	Ser	Leu	Pro	Pro	Asn	Ser	Asp	Thr	Ser	Lys		
			260					265					270				
Glu	Thr	Ser	Leu	Thr	Val	Asn	Lys	Glu	Thr	Thr	Val	Glu	Thr	Lys	Glu		
			275				280					285					
Thr	Thr	Thr	Thr	Asn	Lys	Gln	Thr	Ser	Thr	Asp	Gly	Lys	Glu	Lys	Thr		
			290			295					300						
Thr	Ser	Ala	Lys	Glu	Thr	Gln	Ser	Ile	Glu	Lys	Thr	Ser	Ala	Lys	Asp		
305				310						315					320		
Leu	Ala	Pro	Thr	Ser	Lys	Val	Leu	Ala	Lys	Pro	Thr	Pro	Lys	Ala	Glu		
			325					330						335			
Thr	Thr	Thr	Lys	Gly	Pro	Ala	Leu	Thr	Thr	Pro	Lys	Glu	Pro	Thr	Pro		
			340					345					350				
Thr	Thr	Pro	Lys	Glu	Pro	Ala	Ser	Thr	Thr	Pro	Lys	Glu	Pro	Thr	Pro		
			355				360					365					
Thr	Thr	Ile	Lys	Ser	Ala	Pro	Thr	Thr	Pro	Lys	Glu	Pro	Ala	Pro	Thr		
			370			375					380						
Thr	Thr	Lys	Ser	Ala	Pro	Thr	Thr	Pro	Lys	Glu	Pro	Ala	Pro	Thr	Thr		
385				390						395					400		
Thr	Lys	Glu	Pro	Ala	Pro	Thr	Thr	Pro	Lys	Glu	Pro	Ala	Pro	Thr	Thr		
			405					410						415			
Thr	Lys	Glu	Pro	Ala	Pro	Thr	Thr	Thr	Lys	Ser	Ala	Pro	Thr	Thr	Pro		
			420					425					430				
Lys	Glu	Pro	Ala	Pro	Thr	Thr	Pro	Lys	Lys	Pro	Ala	Pro	Thr	Thr	Pro		
			435			440					445						
Lys	Glu	Pro	Ala	Pro	Thr	Thr	Pro	Lys	Glu	Pro	Thr	Pro	Thr	Thr	Pro		
			450			455					460						
Lys	Glu	Pro	Ala	Pro	Thr	Thr	Lys	Glu	Pro	Ala	Pro	Thr	Thr	Pro	Lys		
465				470						475					480		
Glu	Pro	Ala	Pro	Thr	Ala	Pro	Lys	Lys	Pro	Ala	Pro	Thr	Thr	Pro	Lys		
			485					490						495			
Glu	Pro	Ala	Pro	Thr	Thr	Pro	Lys	Glu	Pro	Ala	Pro	Thr	Thr	Thr	Lys		
			500					505					510				
Glu	Pro	Ser	Pro	Thr	Thr	Pro	Lys	Glu	Pro	Ala	Pro	Thr	Thr	Thr	Lys		
			515				520					525					
Ser	Ala	Pro	Thr	Thr	Thr	Lys	Glu	Pro	Ala	Pro	Thr	Thr	Thr	Lys	Ser		
			530			535					540						
Ala	Pro	Thr	Thr	Pro	Lys	Glu	Pro	Ser	Pro	Thr	Thr	Lys	Glu	Pro			
545					550					555				560			

Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro
 565 570 575
 Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
 580 585 590
 Ala Pro Thr Thr Thr Lys Lys Pro Ala Pro Thr Ala Pro Lys Glu Pro
 595 600 605
 Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys Lys Leu
 610 615 620
 Thr Pro Thr Thr Pro Glu Lys Leu Ala Pro Thr Thr Pro Glu Lys Pro
 625 630 635 640
 Ala Pro Thr Thr Pro Glu Glu Leu Ala Pro Thr Thr Pro Glu Glu Pro
 645 650 655
 Thr Pro Thr Thr Pro Glu Glu Pro Ala Pro Thr Thr Pro Lys Ala Ala
 660 665 670
 Ala Pro Asn Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
 675 680 685
 Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Thr
 690 695 700
 Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr Thr Leu Lys Glu Pro
 705 710 715 720
 Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys Glu Leu Ala Pro Thr
 725 730 735
 Thr Thr Lys Glu Pro Thr Ser Thr Thr Ser Asp Lys Pro Ala Pro Thr
 740 745 750
 Thr Pro Lys Gly Thr Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr
 755 760 765
 Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr
 770 775 780
 Thr Leu Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys
 785 790 795 800
 Glu Leu Ala Pro Thr Thr Thr Lys Gly Pro Thr Ser Thr Thr Ser Asp
 805 810 815
 Lys Pro Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys
 820 825 830
 Glu Pro Ala Pro Thr Thr Pro Lys Pro Ala Pro Thr Thr Pro Glu
 835 840 845
 Thr Pro Pro Pro Thr Thr Ser Glu Val Ser Thr Pro Thr Thr Lys
 850 855 860
 Glu Pro Thr Thr Ile His Lys Ser Pro Asp Glu Ser Thr Pro Glu Leu
 865 870 875 880
 Ser Ala Glu Pro Thr Pro Lys Ala Leu Glu Asn Ser Pro Lys Glu Pro
 885 890 895
 Gly Val Pro Thr Thr Lys Thr Pro Ala Ala Thr Lys Pro Glu Met Thr
 900 905 910
 Thr Thr Ala Lys Asp Lys Thr Thr Glu Arg Asp Leu Arg Thr Thr Pro
 915 920 925
 Glu Thr Thr Thr Ala Ala Pro Lys Met Thr Lys Glu Thr Ala Thr Thr
 930 935 940
 Thr Glu Lys Thr Thr Glu Ser Lys Ile Thr Ala Thr Thr Thr Gln Val
 945 950 955 960
 Thr Ser Thr Thr Thr Gln Asp Thr Thr Pro Phe Lys Ile Thr Thr Leu
 965 970 975
 Lys Thr Thr Thr Leu Ala Pro Lys Val Thr Thr Thr Lys Lys Thr Ile
 980 985 990
 Thr Thr Thr Glu Ile Met Asn Lys Pro Glu Glu Thr Ala Lys Pro Lys
 995 1000 1005
 Asp Arg Ala Thr Asn Ser Lys Ala Thr Thr Pro Lys Pro Gln Lys Pro
 1010 1015 1020
 Thr Lys Ala Pro Lys Lys Pro Thr Ser Thr Lys Lys Pro Lys Thr Met

```

1025          1030          1035          1040
Pro Arg Val Arg Lys Pro Lys Thr Thr Pro Thr Pro Arg Lys Met Thr
          1045          1050          1055
Ser Thr Met Pro Glu Leu Asn Pro Thr Ser Arg Ile Ala Glu Ala Met
          1060          1065          1070
Leu Gln Thr Thr Thr Arg Pro Asn Gln Thr Pro Asn Ser Lys Leu Val
          1075          1080          1085
Glu Val Asn Pro Lys Ser Glu Asp Ala Gly Gly Ala Glu Gly Glu Thr
          1090          1095          1100
Pro His Met Leu Leu Arg Pro His Val Phe Met Pro Glu Val Thr Pro
1105          1110          1115          1120
Asp Met Asp Tyr Leu Pro Arg Val Pro Asn Gln Gly Ile Ile Ile Asn
          1125          1130          1135
Pro Met Leu Ser Asp Glu Thr Asn Ile Cys Asn Gly Lys Pro Val Asp
          1140          1145          1150
Gly Leu Thr Thr Leu Arg Asn Gly Thr Leu Val Ala Phe Arg Gly His
          1155          1160          1165
Tyr Phe Trp Met Leu Ser Pro Phe Ser Pro Pro Ser Pro Ala Arg Arg
          1170          1175          1180
Ile Thr Glu Val Trp Gly Ile Pro Ser Pro Ile Asp Thr Val Phe Thr
1185          1190          1195          1200
Arg Cys Asn Cys Glu Gly Lys Thr Phe Phe Phe Lys Asp Ser Gln Tyr
          1205          1210          1215
Trp Arg Phe Thr Asn Asp Ile Lys Asp Ala Gly Tyr Pro Lys Pro Ile
          1220          1225          1230
Phe Lys Gly Phe Gly Gly Leu Thr Gly Gln Ile Val Ala Ala Leu Ser
          1235          1240          1245
Thr Ala Lys Tyr Lys Asn Trp Pro Glu Ser Val Tyr Phe Phe Lys Arg
          1250          1255          1260
Gly Gly Ser Ile Gln Gln Tyr Ile Tyr Lys Gln Glu Pro Val Gln Lys
1265          1270          1275          1280
Cys Pro Gly Arg Arg Pro Ala Leu Asn Tyr Pro Val Tyr Gly Glu Thr
          1285          1290          1295
Asp Thr Gly *
          1299

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<210> 1848
<211> 103
<212> PRT
<213> Homo sapiens

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<400> 1848
Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln
  1          5          10          15
Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys
          20          25          30
Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys
          35          40          45
Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala
          50          55          60
Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Val Ile Pro
          65          70          75          80
Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Leu Val Cys Gly
          85          90          95
Val Gln Ser Ala Pro Cys *
          100          102

```

<210> 1849
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1849
 Met Ser Arg Phe Leu Leu Pro Arg Glu Gly Cys Leu Leu Ile Val Phe
 1 5 10 15
 Met Leu Cys Glu Lys Thr Leu Pro Phe Leu Phe Thr Leu Lys Glu Tyr
 20 25 30
 Thr Phe Ile Pro Glu His Arg Thr Thr Asp Ile Asn Cys Val Asn Thr
 35 40 45
 His Glu
 50

<210> 1850
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1850
 Met Arg Leu His Ser Lys Gly Ser Gln Asp Pro Ser Thr Lys Val His
 1 5 10 15
 Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu Met Leu Phe Ala Ile
 20 25 30
 Tyr Phe Leu Cys Ile Ile Thr Ser Thr Trp Asn Leu Arg Thr Gln Gln
 35 40 45
 Ser Lys Leu Val Leu Leu Leu Cys Gln Thr Val Ala Ile Met Tyr Pro
 50 55 60
 Ser Phe His Ser Phe Ile Leu Ile Met Gly Ser Arg Lys Leu Lys Gln
 65 70 75 80
 Thr Phe Leu Ser
 84

<210> 1851
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1851
 Met Ala Ala Cys Lys Leu Leu Lys His Leu Asn Gly Phe Ser Leu Leu
 1 5 10 15
 Leu Pro Arg Leu Glu Cys Asn Gly Val Ile Ser Val His Cys Asn Pro
 20 25 30
 Leu Pro Pro Gly Phe Lys Arg Phe Ser Cys Pro Ser Leu Leu Ser Ser
 35 40 45
 Trp Asp *
 50

<210> 1852
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1852
 Met Lys Thr Lys Cys Lys Pro Asn Ile Thr Phe Phe Asn Thr Ile Ile
 1 5 10 15
 Cys Phe Phe Leu Thr Phe Leu Phe Cys Ile Tyr Ile Asp Ser Leu Leu
 20 25 30
 Cys Thr Val Pro Lys Asn Pro Ala Gln Ala Val Gln Leu Asn Arg Asp
 35 40 45
 His Thr Lys Val His *
 50 53

<210> 1853
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 1853
 Met Ala Val Val Arg Val Met Val Val Val Arg Val Thr Ala Val Val
 1 5 10 15
 Arg Val Met Val Val Val Arg Val Val Val Val Arg Val Met Val Val
 20 25 30
 Val Arg Ile Thr Ala Val Leu Arg Val Met Val Val Val Arg Ile Met
 35 40 45
 Ala Val Ile Arg Val Met Val Val Val Arg Val Thr Ala Ile Val Gly
 50 55 60
 Val Met Val Val Ile Arg Val Thr Ala Ile Val Ser Ile Met Val Val
 65 70 75 80
 Val Arg Val Met Val Val Val Arg Val Met Val Val Ala Arg Pro Met
 85 90 95
 Val Val Val Arg Val Met Ala Val Val Arg Val Met Ala Asp Ser Ala
 100 105 110
 Leu Arg Ala Ile Cys Ser Ser Ser Leu Asn Val Thr Phe Ser Leu Glu
 115 120 125 128
 *

<210> 1854
 <211> 190
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(190)
 <223> Xaa = any amino acid or nothing

<400> 1854

```

Met Ser Cys Phe Gly Leu Leu Leu Gly Gly Leu Thr Pro Arg Val Leu
 1      5      10      15
Ser Thr Glu Glu Gln Leu Pro Pro Gly Phe Pro Ser Ile Asp Met Gly
      20      25      30
Pro Gln Leu Lys Val Val Glu Lys Ala Arg Thr Ala Thr Met Leu Cys
      35      40      45
Ala Ala Gly Gly Asn Pro Asp Pro Glu Ile Ser Trp Phe Lys Asp Phe
      50      55      60
Leu Pro Val Asp Pro Ala Thr Ser Asn Gly Arg Ile Lys Gln Leu Arg
      65      70      75      80
Ser Gly Glu Gln Arg Ala Gly Val Lys Gly Pro Cys Arg Pro Gln Asn
      85      90      95
Lys Arg Leu Val Arg Ser Gln His Ser Leu Leu Pro Trp Ala Trp Ala
      100      105      110
Pro Pro Gly Leu Ser Gly Gly Tyr Leu Val Gly Trp Ala Gly Ser Tyr
      115      120      125
Cys Arg Cys Ala Trp Leu Arg Glu Glu Ser Ser Trp Leu Ala Val Pro
      130      135      140
Leu Pro Ser Ser Asp Cys Gln Thr Pro Asp Phe Gly Pro Val Leu Pro
      145      150      155      160
Leu Pro Ala His Val Met Cys Gln Cys Gly Gly Leu Phe Lys Gly Ala
      165      170      175
Leu Trp Met Leu Thr Leu Leu Leu Pro Cys Xaa Leu Ala *
      180      185      189

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<210> 1855
<211> 78
<212> PRT
<213> Homo sapiens

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```

<400> 1855
Met Val Val Ser Ala Trp Ile Gly Leu Glu Ala Thr Val Val Ala Ala
 1      5      10      15
Cys Leu Ala Leu Leu Gly Ser Val Val Arg Glu Thr Ser Thr Ser Ala
      20      25      30
Ser Pro Thr Pro Ala Ala Leu Arg Ala Ala Trp Thr Val Tyr Ser Ser
      35      40      45
Pro Met Thr Thr Cys Val Phe Ala Val Val Pro Leu Leu Ala Gly Thr
      50      55      60
Val Lys Pro Ser Ser Met Cys Val Pro Arg Cys Pro Ala *
      65      70      75      77

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```

<210> 1856
<211> 67
<212> PRT
<213> Homo sapiens

```

```

<400> 1856
Met Thr Asn Trp Met Leu Leu Leu Ala Ser Arg Ile Phe Gln Ser Leu
 1      5      10      15
Ala Ile Pro Lys Gln Leu Gly Leu Arg Arg Glu Met Pro Ser Gly Ser
      20      25      30
Pro Thr Thr Asn Ser Ser Ser Gly Cys Ile Arg Asn Leu Glu Tyr Ser

```



```

          35          40          45
Thr Leu Met Gly Ser Glu Met Pro Met Ala Leu Ala Ala Glu Thr Trp
      50          55          60
Leu Leu *
65 66

```

```

<210> 1857
<211> 107
<212> PRT
<213> Homo sapiens

```

```

<400> 1857
Met Leu Leu Met Phe Leu Leu Ala Thr Cys Leu Leu Ala Ile Ile Phe
 1          5          10          15
Val Pro Gln Glu Met Gln Thr Leu Arg Val Val Leu Ala Thr Leu Gly
      20          25          30
Val Gly Ala Ala Ser Leu Gly Ile Thr Cys Ser Thr Ala Gln Glu Asn
      35          40          45
Glu Leu Ile Pro Ser Ile Ile Arg Gly Arg Ala Thr Gly Ile Thr Gly
      50          55          60
Asn Phe Ala Asn Ile Gly Gly Ala Leu Ala Ser Leu Val Met Ile Leu
65          70          75          80
Ser Ile Tyr Ser Arg Pro Leu Pro Trp Ile Ile Tyr Gly Val Phe Ala
      85          90          95
Ile Leu Ser Gly Leu Val Val Leu Leu Leu Pro
      100          105          107

```

```

<210> 1858
<211> 134
<212> PRT
<213> Homo sapiens

```

```

<400> 1858
Met Ile Pro Pro Ala Ile Phe Trp Val Leu Ile Ile Phe Gly Trp Thr
 1          5          10          15
Leu Val Tyr Gly Phe Val Tyr Phe Thr Thr Gly Glu Thr Ile Met Asp
      20          25          30
Lys Leu Leu Arg Val Leu Tyr Trp Ile Leu Val Lys Thr Phe Phe Arg
      35          40          45
Glu Ile Ser Val Ser His Gln Glu Arg Ile Pro Lys Asp Lys Pro Val
      50          55          60
Met Leu Val Cys Ala Pro His Ala Asn Gln Phe Val Asp Gly Met Val
65          70          75          80
Ile Ser Thr His Leu Asp Arg Lys Val Tyr Phe Val Gly Ala Ala Ser
      85          90          95
Ser Phe Arg Lys Tyr Lys Val Val Gly Leu Phe Met Lys Leu Met Ala
      100          105          110
Ser Ile Ile Ser Gly Glu Arg His Gln Asp Val Lys Lys Val Leu Thr
      115          120          125
Gly Met Ala Thr Glu Lys
      130          134

```

<210> 1859
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1859
 Met Phe Tyr Val Lys Ala Glu Phe Leu Val Ser Phe Ser Cys Pro Trp
 1 5 10 15
 Leu Thr Ala Cys Ala Leu Leu Met Ser Cys Ser Trp Phe Leu Thr Leu
 20 25 30
 Thr Ile Leu Ser Val Lys Gly Gly Thr Pro Ala Gly Met Leu Asp Gln
 35 40 45
 Lys Lys Gly Lys Phe Ala Trp Phe Ser His Ser Thr Glu Thr His Gly
 50 55 60
 Asn Val Pro Leu Cys Ser Val Cys Val Asn Ala Cys Gly Cys Ile Pro
 65 70 75 80
 Asp *
 81

<210> 1860
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1860
 Met Pro Leu Ser Pro Leu Leu Phe His Leu Gly Pro Phe Pro Phe Lys
 1 5 10 15
 Ala Glu Ser Trp Leu Asn Phe Leu Pro Pro Pro Phe Phe Pro Leu Leu
 20 25 30
 Pro Leu Leu Phe Leu Ala Lys Ala Glu Ile Gln Trp Ala *
 35 40 45

<210> 1861
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 1861
 Met Thr Ile Phe Phe Ser Leu Leu Val Leu Ala Ile Cys Ile Ile Leu
 1 5 10 15
 Val His Leu Leu Ile Arg Tyr Arg Leu His Phe Leu Pro Glu Ser Val
 20 25 30
 Ala Val Val Ser Leu Gly Ile Leu Met Gly Ala Val Ile Lys Ile Ile
 35 40 45
 Glu Phe Lys Lys Leu Ala Asn Trp Lys Glu Glu Glu Met Phe Arg Pro
 50 55 60
 Asn Met Phe Phe Leu Leu Leu Pro Pro Ile Ile Phe Glu Ser Gly
 65 70 75 80
 Tyr Ser Leu His Lys Gly Asn Phe Phe Gln Asn Ile Gly Ser Ile Thr
 85 90 95
 Leu Phe Ala Val Phe Gly Thr Ala Ile Ser Ala Phe Val Val Gly Gly

		100						105					110				
Gly	Ile	Tyr	Phe	Leu	Gly	Gln	Ala	His	Val	Ile	Ser	Lys	Leu	Asn	Met		
		115					120					125			128		

<210> 1862
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1862

Met	Trp	Asp	Met	Leu	Pro	Trp	Gly	Ile	Thr	Trp	Val	Leu	Leu	Thr	Thr		
1				5					10					15			
Gln	Leu	His	Ser	Pro	Leu	Leu	Tyr	Val	Ile	Gly	Phe	Thr	Tyr	Trp	Val		
			20					25					30				
Cys	Lys	Gly	Asp	Arg	Asp	Ser	Tyr	Leu	Glu	Glu	Asn	Ser	Arg	Glu	Thr		
		35					40					45					
Ala	Ser	Val	Tyr	Thr	Ser	Val	Leu	Ser	*								
	50					55		57									

<210> 1863
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1863

Met	Thr	Gln	Asp	Leu	Val	Leu	Thr	Val	Pro	Phe	Met	Gly	Cys	Leu	Leu		
1				5					10					15			
Ile	Leu	Val	Asp	Gly	Leu	Lys	Pro	Asn	Arg	Pro	Ala	Tyr	Ile	Gln	Thr		
			20					25					30				
Gly	Ser	Gln	Ala	Thr	Gln	Ala	Gly	Val	Gln	Trp	His	Asn	Tyr	Gly	Ser		
		35					40					45					
Leu	*																
	49																

<210> 1864
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1864

Met	Val	Ala	Ser	Ala	Gln	Leu	Leu	Ser	His	Val	Cys	Leu	Gly	Gly			
1				5				10					15				
Leu	Gln	Leu	Leu	His	Ser	Phe	Leu	Ser	Ser	Leu	Gln	Leu	Pro	Ala	Leu		
			20					25					30				
Leu	Leu	Lys	Leu	Ala	Pro	Glu	Ala	Leu	Ala	Leu	Phe	Thr	Ser	Ile	Leu		
		35					40				45						
Lys	Ser	Ala	Leu	Val	Val	His	Asp	Phe	Ser	Thr	Gln	Leu	Glu	Leu	Glu		
	50					55					60						

Gly Val Glu Leu Leu Val Cys Ser Pro Leu Glu Ala Leu Gly Pro Leu
 65 70 75 80
 Leu Cys Leu Gly Glu Leu Gly Leu Gln Ala
 85 90

<210> 1865
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1865
 Met Arg Leu Gly Leu Leu Leu Leu Ala Arg His Trp Cys Ile Ala Gly
 1 5 10 15
 Val Phe Pro Gln Lys Phe Asp Gly Asp Ser Ala Tyr Val Gly Met Ser
 20 25 30
 Asp Gly Asn Pro Glu Leu Leu Ser Thr Ser Gln Thr Tyr Asn Gly Gln
 35 40 45
 Ser Glu Asn Asn Glu Asp Tyr Glu Ile Pro Pro Ile Thr Pro Pro Asn
 50 55 60
 Leu Pro Glu Pro Ser Leu Leu His Leu Gly Asp His Glu Ala Ser Tyr
 65 70 75 80
 His Ser Leu Cys His Gly Leu Thr Pro Asn Gly Leu Leu Pro Ala Tyr
 85 90 95
 Ser Tyr Gln Ala Met Asp Leu Pro Ala Ile Met Val Ser Asn Met Leu
 100 105 110
 Ala Gln Asp Ser His Leu Leu Ser Gly Gln Leu Pro Thr
 115 120 125

<210> 1866
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 1866
 Met Cys Phe Leu Asn Lys Leu Leu Leu Leu Ala Ala Leu Asp Trp Leu
 1 5 10 15
 Phe Gln Ile Pro Thr Val Pro Glu Asp Leu Phe Phe Leu Glu Gly
 20 25 30
 Pro Ser Tyr Ala Phe Glu Val Asp Thr Val Ala Pro Glu His Gly Leu
 35 40 45
 Asp Asn Ala Pro Val Val Asp Gln Gln Leu Leu Tyr Thr Cys Cys Pro
 50 55 60
 Tyr Ile Gly Glu Leu Arg Lys Leu Leu Ala Ser Trp Val Ser Gly Ser
 65 70 75 80
 Ser Gly Arg Ser Gly Gly Phe Met Arg Lys Ile Thr Pro Thr Thr Thr
 85 90 95
 Thr Ser Leu Gly Ala Gln Pro Ser Gln Thr Ser Gln Gly Leu Gln Ala
 100 105 110
 Gln Leu Ala Gln Ala Phe Phe His Asn Gln Pro Pro Ser Leu Arg Arg
 115 120 125
 Thr
 129

<210> 1867
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1867
 Met Met Arg Leu Glu Lys Phe Val Thr Trp Ser Val Met Ala Leu Gly
 1 5 10 15
 Trp Phe Val Phe Arg Gln Gln Asn Cys Trp Ala Leu Trp Ser Lys Ser
 20 25 30
 Val Leu Ile Ser Trp Ser Arg Pro Leu Thr Arg Ser Met Ser Asp Leu
 35 40 45
 Arg Arg Lys Arg Thr Ala His Glu Arg Ala Lys Glu Leu Tyr Ser Ser
 50 55 60
 Gly Glu Phe Ser Ser Gly Arg Lys Trp Gly Asp Asp Ala Pro Lys Glu
 65 70 75 80

<210> 1868
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1868
 Met Leu Val Trp Leu Tyr Gly Thr Ile Arg Trp Pro Ala Leu Gly Ala
 1 5 10 15
 Pro Arg Trp Trp Pro Trp Val Trp Pro Gly Val Trp Ser Gly Ile
 20 25 30
 Glu Thr Pro Ser Ser Thr Pro Arg Ala Arg Ser Leu Arg Gly Thr Gly
 35 40 45
 Gly Ala Val Thr Arg Arg Thr Gly Ser Ser Phe Pro Trp Thr Thr Thr
 50 55 60
 Thr Arg Pro Ser Ser Trp Trp Thr Thr Ala His Thr Ala Ala Trp Gly
 65 70 75 80
 Ala Arg Thr Ala Ser Ala Cys Ala Trp Ser Pro Thr Ser His Ser Lys
 85 90 95
 Thr Arg Pro Trp Gln Gly Leu Glu Leu Thr Ser Leu Ala Cys Ser Ser
 100 105 110 112

*

<210> 1869
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1869
 Met Phe Leu Trp Val Lys Arg Leu Leu Phe Ala Ala Ser Leu Leu Ala
 1 5 10 15

```

Ser Asp Ser Ser Thr Ile Leu Cys Ser Arg Asp Leu Ile Leu Glu Ser
      20      25      30
Ile Ala Leu Ile Ile Ala Phe Cys Ser Leu Arg Ile Leu Pro Phe Ser
      35      40      45
Trp Ala Ser Ser Ser Cys Leu Cys Ile Met Phe Ser Ser Val Ser Leu
      50      55      60
Ser Ala Arg Ser Phe Phe Ile *
      65      70 71

```

<210> 1870
 <211> 197
 <212> PRT
 <213> Homo sapiens

```

<400> 1870
Met Arg Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala His
 1      5      10      15
Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln Ser
      20      25      30
Ser Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro Glu Gly Thr
      35      40      45
Pro Asp Thr Val Tyr Ser Ile Glu Tyr Lys Thr Tyr Gly Glu Arg Asp
      50      55      60
Trp Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn
      65      70      75      80
Leu Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val
      85      90      95
Thr Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg
      100      105      110
Phe Ser Ser Leu Gln His Thr Thr Leu Lys Pro Pro Asp Val Thr Cys
      115      120      125
Ile Ser Lys Val Arg Ser Ile Gln Met Ile Val His Pro Thr Pro Thr
      130      135      140
Pro Ile Arg Ala Gly Asp Gly His Arg Leu Thr Leu Glu Asp Ile Phe
      145      150      155      160
His Asp Leu Phe Tyr His Leu Glu Leu Gln Val Asn Arg Thr Tyr Gln
      165      170      175
Met Val Ser Val Cys Cys Thr Leu Val Phe Leu Cys Leu Gly Ser Leu
      180      185      190
Phe Pro Pro Asn *
      195 196

```

<210> 1871
 <211> 75
 <212> PRT
 <213> Homo sapiens

```

<400> 1871
Met Glu Tyr Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe
 1      5      10      15
Cys Val Ala Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp
      20      25      30
Tyr Val Ser Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg

```

```

      35      40      45
Arg Glu Ser Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly
      50      55      60
Ile Arg Glu Gln Arg Leu Thr Gly Leu Val Val
      65      70      75

```

<210> 1872
 <211> 84
 <212> PRT
 <213> Homo sapiens

```

      <400> 1872
Met Pro Phe Ser Thr Cys Thr Ala Leu Pro Ser Trp Ala Thr Leu Ser
  1      5      10      15
Thr Trp Ser Trp Thr Pro Lys Val Ser Leu Ala Gly Glu Glu Arg Gly
      20      25      30
Glu Thr Cys Gln Pro Asp Pro Phe Pro Pro His Pro Ser Cys Ser Val
      35      40      45
Gly Arg Thr Pro Pro His Ser Ser Leu Gly Ser Pro Pro Thr Thr Leu
      50      55      60
Phe Leu Ser Pro Leu Leu Arg Val Glu Ser Arg Gly Ala Lys Cys Val
      65      70      75      80
Val Cys Cys *
      83

```

<210> 1873
 <211> 51
 <212> PRT
 <213> Homo sapiens

```

      <400> 1873
Met Cys Gly Ser Pro Glu Arg Leu Cys Val Arg Cys Ala Arg Val Cys
  1      5      10      15
Ala Val Phe Met Arg Ala Leu Cys Val Val Cys Val Tyr Leu Arg Arg
      20      25      30
Arg Ile Lys Tyr Glu Arg Phe Leu Gly Trp Glu Leu Arg Cys Lys Ile
      35      40      45
Trp Gly *
      50

```

<210> 1874
 <211> 503
 <212> PRT
 <213> Homo sapiens

```

      <400> 1874
Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
  1      5      10      15
Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
      20      25      30

```

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
 35 40 45
 Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
 50 55 60
 Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
 65 70 75 80
 Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
 85 90 95
 Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
 100 105 110
 Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
 115 120 125
 Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
 130 135 140
 Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
 145 150 155 160
 Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
 165 170 175
 Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
 180 185 190
 Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
 195 200 205
 Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
 210 215 220
 Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
 225 230 235 240
 Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
 245 250 255
 Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
 260 265 270
 Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
 275 280 285
 Gly Trp Leu Pro Leu Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
 290 295 300
 Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys
 305 310 315 320
 Thr Ser Phe Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val
 325 330 335
 Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr
 340 345 350
 Glu Phe Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp
 355 360 365
 Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr
 370 375 380
 Gln Lys Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val
 385 390 395 400
 Asn Ser Val Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser Pro Ser
 405 410 415
 Glu Asn Ser Gln Asp Leu Phe Pro Leu Ala Phe Asn Leu Phe Cys Ser
 420 425 430
 Asp Leu Arg Ser Gln Ile His Leu His Lys Tyr Val Val Val Tyr Phe
 435 440 445
 Arg Glu Ile Asp Thr Lys Asp Asp Tyr Asn Ala Leu Ser Val Cys Pro
 450 455 460
 Lys Tyr His Leu Met Lys Asp Ala Thr Ala Phe Cys Ala Glu Leu Leu
 465 470 475 480
 His Val Lys Gln Gln Val Ser Ala Gly Lys Arg Ser Gln Ala Cys His
 485 490 495
 Asp Gly Cys Cys Ser Leu *

500 502

<210> 1875
 <211> 158
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(158)
 <223> Xaa = any amino acid or nothing

<400> 1875
 Met Xaa Pro Pro Thr Arg Pro Arg Thr Arg Gly Val Gly Ile Phe Tyr
 1 5 10 15
 Phe Val Ile Tyr Ile Ile Ile Ser Phe Leu Val Val Val Asn Met Tyr
 20 25 30
 Ile Ala Val Ile Leu Glu Asn Phe Ser Val Ala Thr Glu Glu Ser Thr
 35 40 45
 Glu Pro Leu Ser Glu Asp Asp Phe Glu Met Phe Tyr Glu Val Trp Glu
 50 55 60
 Lys Phe Asp Pro Asp Ala Thr Gln Phe Ile Glu Phe Ser Lys Leu Ser
 65 70 75 80
 Asp Phe Ala Ala Ala Leu Asp Pro Pro Leu Leu Ile Ala Lys Pro Asn
 85 90 95
 Lys Val Gln Leu Ile Ala Met Asp Leu Pro Met Val Ser Gly Asp Arg
 100 105 110
 Ile His Cys Leu Asp Ile Leu Phe Ala Phe Thr Lys Arg Val Leu Gly
 115 120 125
 Glu Ser Gly Glu Met Asp Ser Leu Arg Ser Gln Met Glu Glu Arg Phe
 130 135 140
 Met Ser Ala Asn Pro Ser Lys Val Ser Tyr Glu Pro Ile Thr
 145 150 155 158

<210> 1876
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1876
 Met Gly Asn Arg Ala Val Ile Ile Ala Arg Gln Leu Ser Ser Val His
 1 5 10 15
 Thr Leu Ile Cys Asn Phe Phe Trp Leu Leu Arg Thr Thr Gly Gly
 20 25 30
 Asp Leu Asp Ser Leu Lys Cys Ser Tyr Glu Ser Ile Gly Leu Asn Ser
 35 40 45
 Ile Ser Thr His Glu Phe Ile Cys Thr Trp Gln Arg Arg Leu Asn Phe
 50 55 60
 Ser Phe Val Met Ser Phe Lys Pro Leu Phe Arg Ala Ser Pro His Ser
 65 70 75 80
 Tyr Leu Leu Ile Ile Gly Ser Gln Leu His Glu Thr Phe Asn Leu Gly
 85 90 95
 Ser Ile Ser Ser Glu Glu Lys Cys Ser *
 100 105

<210> 1877
 <211> 241
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(241)
 <223> Xaa = any amino acid or nothing

<400> 1877
 Met Leu Trp Ala Leu Trp Pro Arg Trp Leu Ala Asp Lys Met Leu Pro
 1 5 10 15
 Leu Leu Gly Ala Val Leu Leu Gln Lys Arg Glu Lys Arg Gly Pro Leu
 20 25 30
 Trp Arg His Trp Arg Arg Glu Thr Tyr Pro Tyr Tyr Asp Leu Gln Val
 35 40 45
 Lys Val Leu Arg Ala Thr Asn Ile Arg Gly Thr Asp Leu Leu Ser Lys
 50 55 60
 Ala Asp Cys Tyr Val Gln Leu Trp Leu Pro Thr Ala Ser Pro Ser Pro
 65 70 75 80
 Ala Gln Thr Arg Ile Val Ala Asn Cys Ser Asp Pro Glu Trp Asn Glu
 85 90 95
 Thr Phe His Tyr Gln Ile His Gly Ala Val Lys Asn Val Leu Glu Leu
 100 105 110
 Thr Leu Tyr Asp Lys Asp Ile Leu Gly Ser Asp Gln Leu Ser Leu Leu
 115 120 125
 Leu Phe Asp Leu Arg Ser Leu Lys Cys Gly Gln Pro His Lys His Thr
 130 135 140
 Phe Pro Leu Asn His Gln Asp Ser Gln Glu Leu Gln Val Glu Phe Val
 145 150 155 160
 Leu Glu Lys Ser Gln Glu Pro Ala Ser Glu Val Ile Thr Asn Gly Val
 165 170 175
 Leu Gly Ala His Pro Trp Leu Arg Met Lys Gly Met Ile Leu Gly Glu
 180 185 190
 Gly Arg Ala Pro Arg Gln Gln His Gly Gln Ser Trp Glu Gly Gly Val
 195 200 205
 Gly Pro Ser Pro Leu Ser Xaa Xaa Xaa Asn Thr Gly Gly Lys Ile Val
 210 215 220
 Gly Phe Trp Glu Glu Met Ala Asn Gly Thr Gly Ala Pro Pro Arg Pro
 225 230 235 240
 Pro
 241

<210> 1878
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1878
 Met Leu Leu Met Leu Leu Phe Arg Cys Cys Ser Ser Lys Asp Leu Trp
 1 5 10 15
 Pro Val Leu Ile Ala His Leu Val Pro Gln Gly Gly Gln Glu Gly Asn

```

                20                25                30
Val Gly Glu Gln Thr Lys Gly Lys Ser Asn Arg Val Leu Pro Val Phe
                35                40                45
Leu *
49

```

```

<210> 1879
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1879
Met Cys Ser Ala Phe Ser Ser Phe Trp Trp Val Pro Pro Leu Ala Gly
 1          5          10          15
Ser Gly Val Lys Leu Gln Thr Phe Thr Ala Ser Val Thr Ala His Lys
          20          25          30
Arg Ser Thr Asp Pro Lys Ser Glu Gln Gln Leu Asp Leu Ser Gln Arg
          35          40          45
Thr Lys Glu Gln Ser Leu Thr Lys
          50          55  56

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<210> 1880
<211> 161
<212> PRT
<213> Homo sapiens

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```

<221> misc_feature
<222> (1)...(161)
<223> Xaa = any amino acid or nothing

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```

<400> 1880
Met Pro Ser Ala Ser Leu Leu Val Asn Leu Leu Ser Ala Leu Leu Ile
 1          5          10          15
Leu Phe Val Phe Gly Glu Thr Glu Ile Arg Phe Thr Gly Gln Thr Glu
          20          25          30
Phe Val Val Asn Glu Thr Ser Thr Thr Val Ile Arg Leu Ile Ile Glu
          35          40          45
Arg Ile Gly Glu Pro Ala Asn Val Thr Ala Ile Val Ser Leu Tyr Gly
          50          55          60
Glu Asp Ala Gly Asp Phe Phe Asp Thr Tyr Ala Ala Ala Phe Ile Pro
          65          70          75          80
Ala Gly Glu Thr Asn Arg Thr Val Tyr Ile Ala Val Cys Asp Asp Asp
          85          90          95
Leu Pro Glu Pro Asp Glu Thr Phe Ile Phe His Leu Thr Leu Gln Lys
          100          105          110
Pro Ser Ala Asn Val Lys Leu Gly Trp Pro Arg Thr Val Thr Val Thr
          115          120          125
Ile Leu Ser Asn Gly Gln Met Ala Phe Trp Glu Phe Ile Phe Ile Leu
          130          135          140
Asn Ile Gly Leu Pro Pro Pro Ile Pro Pro Ser Gly Xaa Leu Lys Ala
          145          150          155          160
Pro
161

```

<210> 1881
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 1881
 Met Gly Ile Tyr Gln Met Tyr Leu Cys Phe Leu Leu Ala Val Leu Leu
 1 5 10 15
 Gln Leu Tyr Val Ala Thr Glu Ala Ile Leu Ile Ala Leu Val Gly Ala
 20 25 30
 Thr Pro Ser Tyr His Trp Asp Leu Ala Glu Leu Leu Pro Asn Gln Ser
 35 40 45
 His Gly Asn Gln Ser Ala Gly Glu Asp Gln Ala Phe Gly Asp Trp Leu
 50 55 60
 Leu Thr Ala Asn Gly Ser Glu Ile His Lys His Val His Phe Ser Ser
 65 70 75 80
 Ser Phe Thr Ser Ile Ala Ser Glu Trp Phe Leu Ile Ala Asn Arg Ser
 85 90 95
 Tyr Lys Val Ser Ala Ala Ser Ser Phe Phe Phe Ser Gly Val Phe Val
 100 105 110
 Gly Val Ile Ser Phe Gly Gln Leu Ser Asp Arg Phe Gly Arg Lys Lys
 115 120 125
 Val Tyr
 130

<210> 1882
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1882
 Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg
 1 5 10 15
 Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser
 20 25 30
 Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala
 35 40 45
 Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp
 50 55 60
 Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys
 65 70 75 80
 Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys
 85 90 95
 Gln Arg Gly Ala Cys Cys Glu Gln Cys Lys Gly Cys
 100 105 108

<210> 1883
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1883
 Met Leu Phe Tyr Leu Val Ser Val Cys Leu Cys Val Ala Val Ile Val
 1 5 10 15
 Ala Phe Gln Leu Thr Ala Phe Thr Phe Arg Lys Asn Leu Ala Ala Thr
 20 25 30
 Ala Leu Leu Leu Ser Leu Phe Gly Tyr Ala Thr Leu Pro Trp Met Tyr
 35 40 45
 Leu Met Ser Arg Ile Phe Ser Ser Ser Asp Val Ala Phe Ile Ser Tyr
 50 55 60
 Val Ser Leu Asn Phe Ile Phe Gly Leu Cys Thr Met Leu Ile Thr Ile
 65 70 75 80
 Met Pro Arg Leu Leu Ala Ile Ile
 85 88

<210> 1884
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 1884
 Met Cys Trp Ala Arg Cys Trp Thr Arg Trp Asn Thr Cys Thr Ile Trp
 1 5 10 15
 Thr Ser Ser Thr Asp Pro Phe Arg Lys Cys Trp Met Ala Pro Glu Ala
 20 25 30
 Leu Asn Phe Ser Phe Ser His Lys Ser Asp Ile Trp Ser Leu Gly Cys
 35 40 45
 Ile Ile Leu Asp Met Thr Ser Cys Ser Phe Met Asp Gly Thr Glu Ala
 50 55 60
 Met His Leu Arg Lys Ser Leu Arg Gln Ser Pro Gly Ser Leu Lys Ala
 65 70 75 80
 Val Leu Lys Thr Met Glu Glu Lys Gln Ile Pro Asp Val Glu Thr Phe
 85 90 95
 Arg Asn Leu Leu Pro Leu Met Leu Gln Ile Asp Pro Ser Asp Arg Ile
 100 105 110
 Thr Ile Lys *
 115

<210> 1885
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 1885
 Met Ser Glu Arg Val Glu Arg Asn Trp Ser Thr Gly Gly Trp Leu Leu
 1 5 10 15
 Ala Leu Cys Leu Ala Trp Leu Trp Thr His Leu Thr Leu Ala Ala Leu
 20 25 30
 Gln Pro Pro Thr Ala Thr Val Leu Val Gln Gln Gly Thr Cys Glu Val
 35 40 45
 Ile Ala Ala His Arg Cys Cys Asn Arg Asn Arg Ile Glu Glu Arg Ser
 50 55 60

Gln Thr Val Lys Cys Ser Cys Phe Ser Gly Gln Val Ala Gly Thr Thr
 65 70 75 80
 Arg Ala Lys Pro Ser Cys Val Asp Asp Leu Leu Leu Ala Ala His Cys
 85 90 95
 Ala Arg Arg Asp Pro Arg Ala Ala Leu Arg Leu Leu Leu Pro Gln Pro
 100 105 110
 Pro Ser Ser
 115

<210> 1886
 <211> 357
 <212> PRT
 <213> Homo sapiens

<400> 1886
 Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
 1 5 10 15
 Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu
 20 25 30
 Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr
 35 40 45
 Gly Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys
 50 55 60
 Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
 65 70 75 80
 Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Lys Val Lys
 85 90 95
 Val Met Tyr Arg Met Ala His Lys Pro Val Tyr Gln Val Lys Gln Lys
 100 105 110
 Val Leu Thr Ser Leu Ala Trp Arg Cys Cys Pro Gly Tyr Thr Gly Pro
 115 120 125
 Asn Cys Glu His His Asp Ser Met Ala Ile Pro Glu Pro Ala Asp Pro
 130 135 140
 Gly Asp Ser His Gln Glu Pro Gln Asp Gly Pro Val Ser Phe Lys Pro
 145 150 155 160
 Gly His Leu Ala Ala Val Ile Asn Glu Val Glu Val Gln Gln Glu Gln
 165 170 175
 Gln Glu His Leu Leu Gly Asp Leu Gln Asn Asp Val His Arg Val Ala
 180 185 190
 Asp Ser Leu Pro Gly Leu Trp Lys Ala Leu Pro Gly Asn Leu Thr Ala
 195 200 205
 Ala Val Met Glu Ala Asn Gln Thr Gly His Glu Phe Pro Asp Arg Ser
 210 215 220
 Leu Glu Gln Val Leu Leu Pro His Val Asp Thr Phe Leu Gln Val His
 225 230 235 240
 Phe Ser Pro Ile Trp Arg Ser Phe Asn Gln Ser Leu His Ser Leu Thr
 245 250 255
 Gln Ala Ile Arg Asn Leu Ser Leu Asp Val Glu Ala Asn Arg Gln Ala
 260 265 270
 Ile Ser Arg Val Gln Asp Ser Ala Val Ala Arg Ala Asp Phe Gln Glu
 275 280 285
 Leu Gly Ala Lys Phe Glu Ala Lys Val Gln Glu Asn Thr Gln Arg Val
 290 295 300
 Gly Gln Leu Arg Gln Asp Val Glu Asp Arg Leu His Ala Gln His Phe
 305 310 315 320
 Thr Leu His Arg Ser Ile Ser Glu Leu Gln Ala Asp Val Asp Thr Lys

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<210> 1887
<211> 86
<212> PRT
<213> Homo sapiens
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<210> 1888
<211> 48
<212> PRT
<213> Homo sapiens
```

```
<210> 1889
<211> 79
<212> PRT
<213> Homo sapiens
```

BNSDOCID: <WO 0154477A2 I >

Asn Gln Thr Phe Leu Cys Leu Leu Ser Thr Thr Ala Phe Gly Gln Gly
 50 55 60
 Val Phe Phe Ile Thr Phe Leu Glu Gly Gln Glu Thr Gly Ile His
 65 70 75 79

<210> 1890
 <211> 251
 <212> PRT
 <213> Homo sapiens

<400> 1890
 Met Asn Val Ile Tyr Phe Pro Leu His Leu Phe Val Val Tyr Ser Arg
 1 5 10 15
 Ala Tyr Thr Ser Leu Val Leu Val Gly Cys Thr Asn Leu Cys Ala Val
 20 25 30
 Leu Phe Ala Arg Cys Leu Asp Asp His Leu Val Ser Leu Arg Met Ser
 35 40 45
 Gly Ser Arg Lys Glu Phe Asp Val Lys Gln Ile Leu Lys Ile Arg Trp
 50 55 60
 Arg Trp Phe Gly His Gln Ala Ser Ser Pro Asn Ser Thr Val Asp Ser
 65 70 75 80
 Gln Gln Gly Glu Phe Trp Asn Arg Gly Gln Thr Gly Ala Asn Gly Gly
 85 90 95
 Arg Lys Phe Leu Asp Pro Cys Ser Leu Gln Leu Pro Leu Ala Ser Ile
 100 105 110
 Gly Tyr Arg Arg Ser Ser Gln Leu Asp Phe Gln Asn Ser Pro Ser Trp
 115 120 125
 Pro Met Ala Ser Thr Ser Glu Val Pro Ala Phe Glu Phe Thr Ala Glu
 130 135 140
 Asp Cys Gly Gly Ala His Trp Leu Asp Arg Pro Glu Val Asp Asp Gly
 145 150 155 160
 Thr Ser Glu Glu Glu Asn Glu Ser Asp Ser Ser Cys Arg Thr Ser
 165 170 175
 Asn Ser Ser Gln Thr Leu Ser Ser Cys His Thr Met Glu Pro Cys Thr
 180 185 190
 Ser Asp Glu Phe Phe Gln Ala Leu Asn His Ala Glu Gln Thr Phe Lys
 195 200 205
 Lys Met Glu Asn Tyr Leu Arg His Lys Gln Leu Cys Asp Val Ile Leu
 210 215 220
 Val Ala Gly Asp Arg Arg Ile Pro Ala His Arg Leu Val Leu Ser Ser
 225 230 235 240
 Val Ser Asp Tyr Phe Ala Gly Met Phe Thr Asn
 245 250 251

<210> 1891
 <211> 117
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(117)
 <223> Xaa = any amino acid or nothing


```

<400> 1891
Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu Phe Ala Xaa Trp Met
 1           5           10           15
Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu Arg Gln Asn Glu Gln
          20           25           30
Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr Glu Pro Tyr Leu Ala
          35           40           45
Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly Thr Thr Tyr Asp Phe
          50           55           60
Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys Pro Leu Cys Val Glu
          65           70           75           80
Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu Trp Ile Thr Ile Pro
          85           90           95
Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile Leu Leu Val Asn Leu
          100          105          110
Leu Val Ala Met Phe
          115          117

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<210> 1892
<211> 103
<212> PRT
<213> Homo sapiens

```

```

<400> 1892
Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
 1           5           10           15
Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
          20           25           30
Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
          35           40           45
Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
          50           55           60
Arg Leu Pro Val Ala Leu Ser Phe Ser Ser Gly Ala Arg Leu Ala Phe
          65           70           75           80
Thr Cys Leu Arg Lys Ile Ser Gly Phe Arg Ala Leu Ile Trp Gly Glu
          85           90           95
Asp Lys Gly Trp Asp Leu *
          100          102

```

```

<210> 1893
<211> 77
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(77)
<223> Xaa = any amino acid or nothing

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```

<400> 1893
Met Leu Ala Ala Gly Val Thr Ser Ala Ala Gly Leu Ala Leu Ala Phe
 1           5           10           15
Ser Gly Asp Tyr Leu Lys Ala Phe Ile Asp Val Pro Thr Val Pro Ala
          20           25           30

```

Ala Leu Val Phe Leu Leu Leu Val Gly Leu Leu Asn Ala Arg Gly Ile
 35 40 45
 Lys Glu Ser Met Arg Ala Xaa Val Val Met Thr Val Val Glu Val Thr
 50 55 60
 Gly Leu Val Leu Val Val Val Leu Ala Leu Val Pro Gly
 65 70 75 77

<210> 1894
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1894
 Met Trp Ala Ala Ser Trp Cys Leu Ser Leu Trp Cys Cys Trp Val Trp
 1 5 10 15
 Ser Gly Thr Ser Glu Ser Ile Thr Ala Asn Ser Ser Gln His Leu Pro
 20 25 30
 Leu Ser Pro Trp Trp Glu Ser Pro Ser Ser Ser Ala Ser *
 35 40 45

<210> 1895
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 1895
 Met Thr Ala Trp Arg Arg Phe Gln Ser Leu Leu Leu Leu Leu Gly Leu
 1 5 10 15
 Leu Val Leu Cys Ala Arg Leu Leu Thr Ala Ala Lys Gly Gln Asn Cys
 20 25 30
 Gly Gly Leu Val Gln Gly Pro Asn Gly Thr Ile Glu Ser Pro Gly Phe
 35 40 45
 Pro His Gly Tyr Pro Asn Tyr Ala Asn Cys Thr Trp Ile Ile Ile Thr
 50 55 60
 Gly Glu Arg Asn Arg Ile Gln Leu Ser Phe His Thr Phe Ala Leu Glu
 65 70 75 80
 Glu Asp Phe Asp Ile Leu Ser Val Tyr Asp Gly Gln Pro Gln Gln Gly
 85 90 95
 Asn Leu Lys Val Arg Leu Ser Gly Phe Gln Leu Pro Ser Ser Ile Val
 100 105 110
 Ser Thr Gly Ser Ile Leu Thr Leu Trp Phe Thr Thr Asp Phe Ala Val
 115 120 125
 Ser Ala Gln Gly Phe Lys Ala Leu Tyr Glu Gly Arg Arg Leu Val Val
 130 135 140
 Phe Cys Thr Cys Ile His Cys Pro Asn Asp Leu Ile His Ala Thr Leu
 145 150 155 160
 Asp *
 161

<210> 1896
 <211> 60

<212> PRT
 <213> Homo sapiens

<400> 1896
 Met Leu Ser Leu Pro Cys Gly Trp Leu Cys Thr Ala Ile Gly Leu Pro
 1 5 10 15
 Thr Met Phe Gly Tyr Ile Ile Cys Gly Val Leu Leu Gly Pro Ser Gly
 20 25 30
 Leu Asn Ser Ile Lys Val Arg Thr Lys Leu Asp Cys Phe Gly Ile Cys
 35 40 45
 Leu Thr Glu Tyr Lys Lys Arg Ile His Glu Asp *
 50 55 59

<210> 1897
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1897
 Met Leu Ile Val Gln Phe Ile Phe Glu Leu Val Ser Ser Ile Leu Val
 1 5 10 15
 Ser Asn Val Lys Asp Met Leu Asp Phe Glu Ser Gly Phe Cys Ser Lys
 20 25 30
 Ile Leu Ser Tyr Phe Phe Ser Ser Pro Arg Tyr Arg Leu Pro Phe Leu
 35 40 45 48
 *

<210> 1898
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1898
 Met Thr Trp Ala Gly Leu Phe Leu Phe Leu Arg Val Gly Ser Pro Asn
 1 5 10 15
 Arg Lys Trp Ala Ala Ser Gly Gly Ser Gly Gly Asp Gly Val Asp Gly
 20 25 30
 Glu Asp Trp Ser Leu Ala Arg Ser His Pro Gln Ser Pro Leu Leu Leu
 35 40 45
 Leu Leu Leu *
 50 51

<210> 1899
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1899

```

Met Ala Ile Pro Ser Val Val Ile Ser Gly Leu Ala Val Leu Leu Val
 1          5          10          15
Ala Met Ala Leu Pro Ser Leu Ser Gly Ser Glu Ala Ile Lys Ser Met
          20          25          30
Thr Ile Pro Gly Leu Val Val Pro Thr Val Val Arg Phe Met Ala Val
          35          40          45
Pro Gly Leu Ile Val Pro Ala Val Ala Lys Phe Thr Val Leu Pro Asp
          50          55          60
Leu Thr Val Pro Thr Glu Asp Lys Ser Leu Ala Val Pro Ser Leu Ile
          65          70          75          80
Ser Arg Ala Gly Asn Ser Val Pro Val Ser Ser Trp Asp Val Phe Gly
          85          90          95
Val Ala Lys Leu Ile Ala Lys Leu Gly Leu Leu Ala Ala Ile Val Ala
          100          105          110          112

```

<210> 1900
 <211> 128
 <212> PRT
 <213> Homo sapiens

```

<400> 1900
Met Arg Val Tyr Gly Thr Cys Thr Leu Val Leu Met Ala Leu Val Val
 1          5          10          15
Phe Val Gly Val Lys Tyr Val Asn Lys Leu Ala Leu Val Phe Leu Ala
          20          25          30
Cys Val Val Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser
          35          40          45
Ala Phe Asp Pro Pro Asp Ile Pro Val Cys Leu Leu Gly Asn Arg Thr
          50          55          60
Leu Ser Arg Arg Ser Phe Asp Ala Cys Val Lys Ala Tyr Gly Ile His
          65          70          75          80
Asn Asn Ser Ala Thr Ser Ala Leu Trp Gly Leu Phe Cys Asn Gly Ser
          85          90          95
Gln Pro Ser Ala Ala Cys Asp Glu Tyr Phe Ile Gln Asn Asn Val Thr
          100          105          110
Glu Ile Gln Gly Ile Pro Gly Ala Ser Gly Val Phe Leu Glu Asn
          115          120          125          128

```

<210> 1901
 <211> 68
 <212> PRT
 <213> Homo sapiens

```

<400> 1901
Met Glu Leu Leu Lys Leu Leu Leu Thr Cys Phe Ser Glu Ala Met Tyr
 1          5          10          15
Leu Pro Pro Ala Pro Glu Ser Gly Ser Thr Asn Pro Trp Val Gln Phe
          20          25          30
Phe Cys Ser Thr Glu Asn Arg His Ala Leu Pro Leu Phe Thr Ser Leu

```

```

      35      40      45
Leu Asn Thr Val Cys Ala Tyr Asp Pro Val Glu Tyr Gly Ile Pro Tyr
      50      55      60
Asn His Leu Tyr
      65      68

```

```

<210> 1902
<211> 127
<212> PRT
<213> Homo sapiens

```

```

<400> 1902
Met Tyr Phe Ser Ser Leu Phe Pro Tyr Val Val Leu Ala Cys Phe Leu
 1      5      10      15
Val Arg Gly Leu Leu Arg Gly Ala Val Asp Gly Ile Leu His Met
      20      25      30
Phe Thr Pro Lys Leu Asp Lys Met Leu Asp Pro Gln Val Trp Arg Glu
      35      40      45
Ala Ala Thr Gln Val Phe Ser Ala Leu Gly Leu Gly Phe Gly Gly Val
      50      55      60
Ile Ala Phe Ser Ser Tyr Asn Lys Gln Asp Asn Asn Cys His Phe Asp
      65      70      75      80
Ala Ala Leu Val Ser Phe Ile Asn Phe Phe Thr Ser Val Leu Ala Thr
      85      90      95
Leu Val Val Phe Ala Val Leu Gly Phe Lys Ala Asn Ile Met Asn Glu
      100      105      110
Lys Cys Val Val Glu Asn Ala Glu Lys Ile Leu Gly Tyr Arg Val
      115      120      125      127

```

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<210> 1903
<211> 83
<212> PRT
<213> Homo sapiens

```

```

<400> 1903
Met Trp Lys Phe Val Ser Pro Leu Cys Met Ala Val Leu Thr Thr Ala
 1      5      10      15
Ser Ile Ile Gln Leu Gly Val Thr Pro Pro Gly Tyr Ser Ala Trp Ile
      20      25      30
Lys Glu Glu Ala Ala Glu Arg Tyr Leu Tyr Phe Pro Asn Trp Ala Met
      35      40      45
Ala Pro Leu Ile Thr Leu Ile Val Val Ala Thr Leu Pro Ile Pro Val
      50      55      60
Val Phe Val Leu Arg His Phe His Leu Ile Cys Asp Gly Ser Asn Thr
      65      70      75      80
Pro Cys Ile
      83

```

```

<210> 1904
<211> 129
<212> PRT

```

<213> Homo sapiens

<400> 1904

```

Met Lys Met Phe Val Ala His Gly Phe Tyr Ala Ala Lys Phe Val Val
 1          5          10          15
Ala Ile Gly Ser Val Ala Gly Leu Thr Val Ser Leu Leu Gly Ser Leu
          20          25          30
Phe Pro Met Pro Arg Val Ile Tyr Ala Met Ala Gly Asp Gly Leu Leu
          35          40          45
Phe Arg Phe Leu Ala His Val Ser Ser Tyr Thr Glu Thr Pro Val Val
          50          55          60
Ala Cys Ile Val Ser Gly Phe Leu Ala Ala Leu Leu Ala Leu Leu Val
          65          70          75          80
Ser Leu Arg Asp Leu Ile Glu Met Met Ser Ile Gly Thr Leu Leu Ala
          85          90          95
Tyr Thr Leu Val Ser Val Cys Val Leu Leu Leu Arg His His Pro Glu
          100          105          110
Ser Asp Ile Asp Gly Phe Val Lys Phe Leu Ser Glu Glu His Thr Cys
          115          120          125
Ser
129

```

<210> 1905

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1905

```

Met Gly Leu Leu Met Met Ile Leu Gly Gln Ile Phe Leu Asn Gly Asn
 1          5          10          15
Gln Ala Lys Glu Ala Glu Ile Trp Glu Met Leu Trp Arg Met Gly Val
          20          25          30
Gln Arg Glu Arg Arg Leu Ser Ile Phe Gly Asn Pro Lys Arg Leu Leu
          35          40          45
Ser Val Glu Phe Val Trp Gln Arg Tyr Leu Asp Tyr Arg Pro Val Thr
          50          55          60
Asp Cys Lys Pro Val Glu Tyr Glu Phe Phe Trp Gly Pro Arg Ser His
          65          70          75          80
Leu Glu Thr Thr Lys Met Lys Ile Leu Lys Phe Met Ala
          85          90          93

```

<210> 1906

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1906

```

Met Thr Ile Gly Phe Leu Phe Pro Met Leu Ser Ile Ala Tyr Leu Ile
 1          5          10          15
Ser Pro Arg Ser Asn Leu Gly Leu Phe Ile Lys Lys Pro Phe Ile Lys
          20          25          30
Phe Ile Cys His Thr Ala Ser Tyr Leu Thr Phe Leu Ser Met Leu Leu

```

```

          35          40          45
Leu Ala Ser Gln His Ile Val Arg Thr Asp Leu His Val Gln Gly Pro
      50          55          60
Cys Ile
    65  66

```

```

<210> 1907
<211> 105
<212> PRT
<213> Homo sapiens

```

```

<400> 1907
Met Leu Gln Leu Gly Pro Phe Leu Tyr Trp Thr Phe Leu Ala Ala Phe
 1          5          10          15
Glu Gly Thr Val Phe Phe Phe Gly Thr Tyr Phe Leu Phe Gln Thr Ala
          20          25          30
Ser Leu Glu Glu Asn Gly Lys Val Tyr Gly Asn Trp Thr Phe Gly Thr
          35          40          45
Ile Val Phe Thr Val Leu Val Phe Thr Val Thr Leu Lys Leu Ala Leu
          50          55          60
Asp Thr Arg Phe Trp Thr Trp Ile Asn His Phe Val Ile Trp Gly Ser
          65          70          75          80
Leu Ala Phe Tyr Val Phe Phe Ser Phe Phe Trp Gly Gly Ile Ile Trp
          85          90          95
Pro Phe Leu Lys Gln Gln Arg Met Ala
          100          105

```

```

<210> 1908
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1908
Met Gly Phe Leu Val Leu Lys Gln Pro Met Leu Val Ala Lys Val Phe
 1          5          10          15
Pro Thr Leu Ala Gly Val Glu Ile Ile Leu Phe Thr Leu Lys Gly Phe
          20          25          30
Pro Ile Leu Gly Ile Pro Val Gln Leu Pro Pro Thr Val *
          35          40          45

```

```

<210> 1909
<211> 139
<212> PRT
<213> Homo sapiens

```

```

<400> 1909
Met Ile Gln Ala Leu Gly Gly Phe Phe Thr Tyr Phe Val Ile Leu Ala
 1          5          10          15
Glu Asn Gly Phe Leu Pro Ile His Leu Leu Gly Leu Arg Glu Asp Trp
          20          25          30

```

```

Asp Asp Arg Trp Ile Asn Asp Val Glu Asp Ser Tyr Gly Gln Gln Trp
      35              40              45
Thr Tyr Glu Gln Arg Lys Ile Val Glu Phe Thr Cys His Thr Ala Phe
      50              55              60
Phe Val Ser Ile Val Gly Val Gln Trp Ala Asp Leu Val Ile Cys Lys
      65              70              75              80
Thr Arg Arg Asn Ser Val Phe Gln Pro Gly Met Lys Asn Lys Ile Leu
              85              90              95
Ile Phe Gly Leu Phe Glu Glu Thr Ala Leu Ala Ala Phe Leu Ser Tyr
              100              105              110
Cys Pro Gly Met Gly Val Ala Leu Lys Met Tyr Pro Leu Lys Pro Thr
              115              120              125
Trp Arg Val Cys Ala Phe Pro Tyr Ser Leu Leu
      130              135              139

```

```

<210> 1910
<211> 104
<212> PRT
<213> Homo sapiens

```

```

<400> 1910
Met Glu Gly Trp Phe Ala Val Leu Ser Thr Ala Asn Asp Val Leu Gly
  1      5      10      15
Ala Pro Trp Asn Trp Leu Tyr Phe Ile Pro Leu Leu Ile Ile Gly Ala
      20      25      30
Phe Phe Val Pro Thr Leu Val Leu Gly Val Leu Ser Gly Asp Phe Ala
      35      40      45
Lys Glu Arg Glu Arg Val Glu Thr Arg Arg Ala Phe Met Lys Leu Arg
      50      55      60
Arg Gln Gln Gln Ile Glu Arg Glu Leu Asn Gly Tyr Arg Val Trp Ile
      65      70      75      80
Ala Lys Ala Glu Glu Val Met Leu Ala Glu Glu Asn Leu Tyr Pro Ser
      85      90      95
His Ala Arg Pro Val Asn Pro *
      100      103

```

```

<210> 1911
<211> 116
<212> PRT
<213> Homo sapiens

```

```

<400> 1911
Met Ala Val Ala Val Leu Leu Cys Gly Cys Ile Val Ala Thr Val Ser
  1      5      10      15
Phe Phe Trp Glu Glu Ser Leu Thr Gln His Val Ala Gly Leu Leu Phe
      20      25      30
Leu Met Thr Gly Ile Phe Cys Thr Ile Ser Leu Cys Thr Tyr Ala Ala
      35      40      45
Ser Ile Ser Tyr Asp Leu Asn Arg Leu Pro Lys Leu Ile Tyr Ser Leu
      50      55      60
Pro Ala Asp Val Glu His Gly Tyr Ser Trp Ser Ile Phe Cys Ala Trp
      65      70      75      80
Cys Ser Leu Gly Phe Ile Val Ala Ala Gly Gly Leu Cys Ile Ala Tyr

```


				85					90					95			
Pro	Phe	Ile	Ser	Arg	Thr	Lys	Ile	Ala	Gln	Leu	Lys	Ser	Gly	Arg	Asp		
			100					105					110				
Ser	Thr	Val	*														
		115															

<210> 1912
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1912

Met	Gln	Leu	Lys	Thr	Pro	Ser	Gly	Gln	Val	Leu	Ser	Phe	Cys	Ile	Leu		
1				5					10					15			
Gln	Leu	Phe	Pro	Phe	Thr	Ser	Glu	Ser	Lys	Arg	Met	Gly	Val	Ile	Val		
			20					25					30				
Arg	Asp	Glu	Ser	Thr	Ala	Glu	Ile	Thr	Phe	Tyr	Met	Lys	Gly	Ala	Asp		
		35					40					45					
Val	Ala	Met	Ser	Pro	Ile	Val	Gln	Tyr	Asn	Asp	Trp	Leu	Glu	Glu	Glu		
	50					55				60							
Cys	Gly	Asn	Met	Ala	Arg	Glu	Gly	Leu	Arg	Thr	Leu	Val	Val	Ala	Lys		
65					70					75					80		
Lys	Ala	Leu	Thr	Glu	Glu	Gln	Tyr	Gln	Asp	Phe	Glu	Ser	Arg	Tyr	Thr		
				85					90					95			
Gln	Ala	Lys	Leu	Ser	Met	His	Thr	Lys									
			100					105									

<210> 1913
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 1913

Met	Leu	Val	Tyr	Val	Trp	Ser	Arg	Arg	Ser	Pro	Arg	Val	Arg	Val	Asn		
1				5					10					15			
Phe	Phe	Gly	Leu	Leu	Thr	Phe	Gln	Ala	Pro	Phe	Leu	Pro	Trp	Ala	Leu		
			20					25					30				
Met	Gly	Phe	Ser	Leu	Leu	Leu	Gly	Asn	Ser	Ile	Leu	Val	Asp	Leu	Leu		
		35					40					45					
Gly	Ile	Ala	Val	Gly	His	Ile	Tyr	Tyr	Phe	Leu	Glu	Asp	Val	Phe	Pro		
	50					55					60						
Asn	Gln	Pro	Gly	Arg	Gln	Glu	Ala	Pro	Ala	Asp	Pro	Trp	Ala	Phe	Leu		
65					70					75					80		
Lys	Leu	Leu	Leu	Gly	Cys	Pro	Cys	Arg	Arg	Pro	Gln	Leu	Thr	Cys	Pro		
				85					90					95			
Ser	Leu	Arg	Asn	Ser	Gln	Asp	Pro	Ile	Cys	His	Pro	Arg	Ser	Ser	Asp		
			100					105					110				
Pro	His	Pro	Gly	Ala	Arg	Pro	Lys	Arg	Leu	Leu	Ala	Ala	Ser	Ile	Leu		
		115					120					125					
Pro	Met	Thr	Pro	Thr	Trp	Gly	Arg	Lys	Asn	Pro	Ser	*					
	130					135					140						

<210> 1914
 <211> 556
 <212> PRT
 <213> Homo sapiens

<400> 1914
 Met Lys Lys Val Leu Leu Leu Leu Trp Lys Thr Val Leu Cys Thr Leu
 1 5 10 15
 Gly Gly Phe Glu Glu Leu Gln Ser Met Lys Ala Glu Lys Arg Ser Ile
 20 25 30
 Leu Gly Leu Pro Pro Leu Pro Glu Asp Ser Ile Lys Val Ile Arg Asn
 35 40 45
 Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile Glu Gln
 50 55 60
 Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys Gln Asp
 65 70 75 80
 Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp Asp Ser
 85 90 95
 Arg Glu Glu Glu Glu Glu Asn Asp Asp Asp Asn Ser Leu Glu Gly Glu
 100 105 110
 Thr Phe Pro Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu Gln His
 115 120 125
 Pro Gln Thr Asp Arg Leu Thr Cys Pro Lys Gly Leu Pro Trp Ala Pro
 130 135 140
 Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser Arg Ser
 145 150 155 160
 Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val Val Gly
 165 170 175
 Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln His Lys
 180 185 190
 Tyr Thr Ser Ile Ala Glu Val Gln Ala Gln Met Glu Glu Glu Tyr Leu
 195 200 205
 Arg Ser Pro Leu Ser Gly Gly Glu Glu Glu Val Glu Gln Val Pro Ala
 210 215 220
 Glu Thr Leu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr Met Ile
 225 230 235 240
 Ala Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys Ala Lys
 245 250 255
 Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu Met Pro
 260 265 270
 Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn Arg His
 275 280 285
 Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu Leu Leu
 290 295 300
 Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met Ala Gln
 305 310 315 320
 His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn
 325 330 335
 Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser Val Leu
 340 345 350
 Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr Ala Glu
 355 360 365
 Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn Leu Phe
 370 375 380
 Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys Trp Lys
 385 390 395 400
 His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro Ile Leu

				405					410					415			
Lys	Arg	Ala	Leu	Lys	Val	Lys	Gln	Ala	Met	Met	Gln	Leu	Tyr	Val	Leu		
			420					425						430			
Lys	Leu	Leu	Lys	Val	Gln	Thr	Lys	Tyr	Leu	Gly	Arg	Gln	Trp	Arg	Lys		
		435					440					445					
Ser	Asn	Met	Lys	Thr	Met	Ser	Ala	Ile	Tyr	Gln	Lys	Val	Arg	His	Arg		
	450					455					460						
Leu	Asn	Asp	Asp	Trp	Ala	Tyr	Gly	Asn	Asp	Leu	Asp	Ala	Arg	Pro	Trp		
465				470						475				480			
Asp	Phe	Gln	Ala	Glu	Glu	Cys	Ala	Leu	Arg	Ala	Asn	Ile	Glu	Arg	Phe		
			485					490						495			
Asn	Ala	Arg	Arg	Tyr	Asp	Arg	Ala	His	Ser	Asn	Pro	Asp	Phe	Leu	Pro		
		500					505						510				
Val	Asp	Asn	Cys	Leu	Gln	Ser	Val	Leu	Gly	Gln	Arg	Val	Asp	Leu	Pro		
	515					520					525						
Glu	Asp	Phe	Gln	Met	Asn	Tyr	Asp	Leu	Trp	Leu	Glu	Arg	Glu	Val	Phe		
	530				535					540							
Ser	Lys	Pro	Ile	Ser	Trp	Glu	Glu	Leu	Leu	Gln	*						
545				550						555							

<210> 1915
 <211> 212
 <212> PRT
 <213> Homo sapiens

Met	Phe	Leu	Val	Ala	Val	Trp	Trp	Arg	Phe	Gly	Ile	Leu	Ser	Ile	Cys		
1				5					10					15			
Met	Leu	Cys	Val	Gly	Leu	Val	Leu	Gly	Phe	Leu	Ile	Ser	Ser	Val	Thr		
			20					25					30				
Phe	Phe	Thr	Pro	Leu	Gly	Asn	Leu	Lys	Ile	Phe	His	Asp	Asp	Gly	Val		
		35				40						45					
Phe	Trp	Val	Thr	Phe	Ser	Cys	Ile	Ala	Ile	Leu	Ile	Pro	Val	Val	Phe		
	50					55					60						
Met	Gly	Cys	Leu	Arg	Ile	Leu	Asn	Ile	Leu	Thr	Cys	Gly	Val	Ile	Gly		
	65			70						75				80			
Ser	Tyr	Ser	Val	Val	Leu	Ala	Ile	Asp	Ser	Tyr	Trp	Ser	Thr	Ser	Leu		
			85					90						95			
Ser	Tyr	Ile	Thr	Leu	Asn	Val	Leu	Lys	Arg	Ala	Leu	Asn	Lys	Asp	Phe		
		100						105					110				
His	Arg	Ala	Phe	Thr	Asn	Val	Pro	Phe	Gln	Thr	Asn	Asp	Phe	Ile	Ile		
		115				120						125					
Leu	Ala	Val	Trp	Gly	Met	Leu	Ala	Val	Ser	Gly	Ile	Thr	Leu	Gln	Ile		
	130					135					140						
Arg	Arg	Glu	Arg	Gly	Arg	Pro	Phe	Phe	Pro	Pro	His	Pro	Tyr	Lys	Leu		
	145				150					155				160			
Trp	Lys	Gln	Glu	Arg	Glu	Arg	Arg	Val	Thr	Asn	Ile	Leu	Asp	Pro	Ser		
			165					170						175			
Tyr	His	Ile	Pro	Pro	Leu	Arg	Glu	Arg	Leu	Tyr	Gly	Arg	Leu	Thr	Gln		
		180					185						190				
Ile	Lys	Gly	Leu	Phe	Gln	Lys	Glu	Gln	Pro	Ala	Gly	Glu	Arg	Thr	Pro		
		195					200					205					
Leu	Leu	Leu	*														
	210	211															

<210> 1916
 <211> 172
 <212> PRT
 <213> Homo sapiens

<400> 1916
 Met Cys Thr Pro Val Arg Val Ser Ile Val Cys Val Met Gly Ala Val
 1 5 10 15
 Gly Ala Val Trp Thr Ala Pro Leu Pro Leu Pro Trp Ala Pro Thr Pro
 20 25 30
 Ser Ile His Leu Arg Glu Glu Gly Ala Ala Phe Pro Phe Cys Gly Val
 35 40 45
 Cys Val Leu Arg Pro Arg Arg Ser Lys Trp Arg Ser Trp Asp Val Asn
 50 55 60
 Leu Gly Pro Arg Arg Arg Gly Leu Leu Gly Cys Gly Pro Cys Pro Ser
 65 70 75 80
 Gly Lys Pro Arg Val His Leu Gln Arg Thr Arg Ser Gly Ala Gly Ala
 85 90 95
 Glu Ala Gly Gly Leu Pro Thr Arg Gly Ser Met Arg Gly Cys Pro Phe
 100 105 110
 Leu Gly Ser Ser Ala Ala Lys Cys Ser Leu Leu Leu Arg Pro Pro Ser
 115 120 125
 Arg Gly Glu Ala Ser Pro Trp Leu Pro Glu Phe Met Thr His Pro Val
 130 135 140
 His His Gln Gln Leu Ala Cys Gly Ser Gly Trp Leu Gly Thr Lys His
 145 150 155 160
 Pro Gly Gly Thr Cys Ala Leu Gly Ser Thr Met *
 165 170 171

<210> 1917
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1917
 Met Leu Arg Trp Gly Phe Leu Glu Ile Leu Phe Leu Arg Ser Trp Phe
 1 5 10 15
 His Ser Trp Ile Cys Leu Leu Pro Thr Pro Gln Leu Pro Pro Asn Gly
 20 25 30
 Ala Ser Ala Gly Ser Gln Asp Glu Gly Ser Arg Arg Arg Leu Ser Leu
 35 40 45
 Glu Val Arg Gly Leu Met Asn His Val Pro Asn Leu Cys Val Ala Phe
 50 55 60
 Leu Ser Ile Val Ser Ile Ser *
 65 70 71

<210> 1918
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1918

```

Met Thr Ser Leu Met Phe Leu Trp Arg Ala Leu Leu Glu Thr Ile Ser
 1          5          10          15
Thr Asn Met Thr Phe Ser Leu Pro Leu Ala Ala Val Val Arg Ala Trp
          20          25          30
Met Lys Pro Thr Gly Ser Gly Met Phe Leu Tyr Gln Tyr Leu Pro Val
          35          40          45
Val Lys Ser Ser Gln Ala Val Phe Pro Val Val Ile Glu Ile Ser Ser
          50          55          60
Ile Ser Gly Ser Ile Leu Pro Lys Phe Pro Met Leu Ser Leu Met Ser
          65          70          75          80
Leu His Thr Gly Ser Ile Ile *
          85          87

```

<210> 1919

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1919

```

Met Leu Gly Pro Phe Ser Ser Leu Phe Leu Leu Leu Trp Ser Phe Thr
 1          5          10          15
Arg Phe Cys Ile His Phe Tyr Leu Ala Pro Ser His His Cys Leu Thr
          20          25          30
Ala Ala Leu Leu Pro Phe Ser Leu His Pro Leu Tyr Ser Ser Leu Ser
          35          40          45
Leu Ser Arg Ser Gln *
          50          53

```

<210> 1920

<211> 114

<212> PRT

<213> Homo sapiens

<400> 1920

```

Met His Pro Pro Leu Thr Pro Pro Thr Pro Leu Cys Leu Trp Leu Arg
 1          5          10          15
Leu Leu Lys Ala Gln Ile Leu Ser Tyr Pro Val Pro Arg Phe Glu Thr
          20          25          30
His Ser Leu Ile Ser Arg Cys Ser Gln Val Pro Pro Thr Phe Leu Trp
          35          40          45
Asp Ile Lys Lys Gly Val Arg Gly Gln Arg Glu Pro Ser Gly Pro Leu
          50          55          60
Leu Pro Tyr Thr Leu His Cys Pro Phe Ser Pro His Gln Asn Ala Gln
          65          70          75          80
Arg Arg Cys Asp Asp Ala Thr Glu Asp Tyr Ala Thr Trp Ser Asn Arg
          85          90          95
Ser Gly Gln His Asp Gln Leu Ser Arg Gly Cys Leu Leu Pro Phe Leu
          100          105          110
Leu *
113

```

<210> 1921
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1921
 Met Val Tyr Leu Tyr Ile Tyr Leu Asp Leu Phe Gln Phe Leu Ile Thr
 1 5 10 15
 Val Leu Gln Gly Phe Leu Phe Val Phe Glu Met Glu Phe His Ser Cys
 20 25 30
 Arg Pro Gly Gln Ser Ala Met Met Gln Ser Gln Leu Ala Ala Thr Ser
 35 40 45
 Ala Ser Arg Val Gln Val Ile Leu Val Val Ser Ala Pro Gln Glu Ala
 50 55 60
 Gly Thr Thr Gly Ala Arg His His Val Gln Leu Ile Phe Val Phe Leu
 65 70 75 80
 Leu Glu Met Gly Phe Cys His Val Gly Gln Ala Gly Leu Glu Leu Leu
 85 90 95
 Asn Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Arg
 100 105 110
 Gly Val Asn His Cys Ala Pro Pro Ile Asn Ser Leu Leu Thr Phe Gln
 115 120 125
 Ser Phe Ile His Leu Glu Cys Ile Val Ile *
 130 135 138

<210> 1922
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1922
 Met Trp Leu Ser Phe Pro Lys Leu Phe Ile Pro Leu Ser Ile Phe Leu
 1 5 10 15
 Val Phe Leu Leu Met Ala Asn Ser Phe Arg Ile Phe Lys Ser Lys Asn
 20 25 30
 Ile Phe Ile Ser Leu Leu Phe Trp Asn Asp Thr Phe Ala Gly Cys Ile
 35 40 45
 Phe Leu Thr *
 50 51

<210> 1923
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1923
 Met Val Ser His Cys Ile Phe Cys Asn Leu Leu Phe Ser Leu Leu Thr
 1 5 10 15
 Val Phe Leu Arg Leu Leu His Val Asp Thr Cys His Leu Phe Ile Arg
 20 25 30
 Phe Asn Cys Cys Lys Ile Phe Phe Cys Gln Asp Ile Leu Gln Leu Ile

```

          35          40          45
Tyr Leu Leu Phe Phe Leu Trp Thr Phe Lys Leu Phe Ser Gly Phe Thr
    50          55          60
Leu Lys Ile Ile Gln Gln *
    65          70

```

<210> 1924
 <211> 187
 <212> PRT
 <213> Homo sapiens

```

    <400> 1924
Met Leu Phe Ile Gln Tyr Leu Leu Pro Cys Leu Leu Leu Ser Ala Glu
  1          5          10          15
Leu Ser Gly Thr Phe Phe Leu Tyr Asn Thr Cys His Leu His Val Pro
    20          25          30
Cys Cys His Ser Leu Val Pro Thr Gly Pro Pro Ser Leu Ser Ser His
    35          40          45
Phe Gln Ser Arg Gly Leu Cys Ala Pro Cys Ala Ser Ile Ala Asp Ser
    50          55          60
Gly Ile Ala Asp Ser Gly Gly Asn Asn Leu Asn Phe Val Gly Ala Gly
    65          70          75          80
Gly Val Ala Ser Gly His Leu Leu Ser Pro Leu Leu Gly Pro Gln Ser
    85          90          95
Ser Pro Cys Pro His Cys Pro Arg Gly Gly Arg Leu Pro Ser Gln Pro
    100          105          110
Leu Pro Leu Cys Ser Ala Arg Ser Trp Ala Gln Glu Ala Leu Arg Leu
    115          120          125
Pro Ser Ser Ala Gln Leu Cys Pro Cys His Pro Leu Pro Arg Gly Leu
    130          135          140
Gly Pro Val Ser Pro Ser Gly Leu Leu Ala Asn Ile Ser Tyr Arg His
    145          150          155          160
Asn Trp Leu Leu Gly Ser Trp Pro Gly Trp Leu Ile Trp Gly Gly Lys
    165          170          175
Asn Arg Gly Gly Leu Asn Ser Phe Leu Ala *
    180          185 186

```

<210> 1925
 <211> 50
 <212> PRT
 <213> Homo sapiens

```

    <400> 1925
Met Leu Ser Phe Leu Val Val Phe Gln Leu Val Leu Leu Arg Phe Ser
  1          5          10          15
Gly Arg His Ser His His Gln Leu Ile Thr Ile Thr Phe Pro Leu Phe
    20          25          30
Gln Trp Leu Tyr Phe Phe Phe Phe Met Phe Phe Cys Thr Gly Trp Lys
    35          40          45
Phe *
    49

```

<210> 1926
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1926
 Met Gly Arg Tyr Arg Cys Ala Ser Leu Leu Phe Cys Phe Leu Leu Leu
 1 5 10 15
 Phe Phe Phe Phe Trp Leu Trp Val Arg Asp Ile Phe Lys Leu Ala Gln
 20 25 30
 Lys Gly Arg Gly Trp Ser Leu Asp Pro His Val Ser Ile Thr *
 35 40 45 46

<210> 1927
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 1927
 Met Ala Thr Gly Leu Leu Ala Phe Leu Gly Leu Ala Ala Gly Gly Gln
 1 5 10 15
 Thr Leu Cys Pro Ala Gly Glu Leu Pro Gly His Ala Arg Ala Gln Ala
 20 25 30
 Ser Gly Ala Pro Gly Ser Val Leu Ile Ala Val Pro Gly Arg Arg Arg
 35 40 45
 Val His Thr Cys Gly Pro Gly Pro Ala Ala Pro Ser Thr Arg Gly Glu
 50 55 60
 Cys Pro Pro Pro Ala Leu Gly His Thr Arg Pro Ala Arg Pro Arg Pro
 65 70 75 80
 Val Leu Leu Arg Pro Ser Cys Ser Pro Gly Ala Arg Gly Ala Gly Thr
 85 90 95
 Trp Cys Cys Ala Pro Ala Thr Gly His Ser Ala Pro Arg Gly Cys Pro
 100 105 110
 Pro Ala Arg Ala Ala Pro Thr Gly Ser Ala Thr Pro Ala Pro Pro Pro
 115 120 125
 Ala Ala Cys Ala Ala Phe His Ser Ala Trp Ser Val Pro Pro Ala Gly
 130 135 140
 Arg Gln Gln Gly *
 145 148

<210> 1928
 <211> 446
 <212> PRT
 <213> Homo sapiens

<400> 1928
 Met Ser Leu Trp Asn Gln Leu Val Val Pro Val Leu Phe Met Val Phe
 1 5 10 15
 Trp Leu Val Leu Phe Ala Leu Gln Ile Tyr Ser Tyr Phe Ser Thr Arg
 20 25 30
 Asp Gln Pro Ala Ser Arg Glu Arg Leu Leu Phe Leu Phe Leu Thr Ser


```
<210> 1929
<211> 120
<212> PRT
<213> Homo sapiens
```

<400> 1929

```

Met Val Leu Pro Leu Pro Trp Leu Ser Arg Tyr His Phe Leu Arg Leu
 1          5          10          15
Leu Leu Pro Ser Trp Ser Leu Ala Pro Gln Gly Ser His Gly Cys Cys
          20          25          30
Ser Gln Asn Pro Lys Ala Ser Met Glu Glu Gln Thr Asn Ser Arg Gly
          35          40          45
Asn Gly Lys Met Thr Ser Pro Pro Arg Gly Pro Gly Thr His Arg Thr
          50          55          60
Ala Glu Leu Ala Arg Ala Glu Glu Leu Leu Glu Gln Gln Leu Glu Leu
 65          70          75          80
Tyr Gln Ala Leu Leu Glu Gly Gln Glu Gly Ala Trp Glu Ala Gln Ala
          85          90          95
Leu Val Leu Lys Ile His Lys Leu Lys Glu Gln Met Arg Arg His Gln
          100          105          110
Glu Ser Leu Gly Gly Gly Ala *
          115          119

```

<210> 1930

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1930

```

Met Thr Trp Leu Val Leu Leu Gly Thr Leu Leu Cys Met Leu Arg Val
 1          5          10          15
Gly Leu Gly Thr Pro Asp Ser Glu Gly Phe Pro Pro Arg Ala Leu His
          20          25          30
Asn Cys Pro Tyr Lys Cys Ile Cys Ala Ala Asp Leu Leu Ser Cys Thr
          35          40          45
Gly Leu Gly Leu Gln Asp Val Pro Ala Glu Leu Pro Ala Gly Thr Ala
          50          55          60
Asp Leu Asp Leu Ser His Asn Ala Leu Gln Arg Met Arg Pro Gly Trp
 65          70          75          80
Leu Ala Pro Leu Phe Gln Leu Arg Ala Leu His Leu Asp His Asn Glu
          85          90          95
Leu His Ala Leu Asp Arg Gly Val Phe Val Asn Ala Ser Gly Leu Arg
          100          105          110
Leu Leu Asp Leu Ser Ser Asn Ala Glu Phe
          115          120          122

```

<210> 1931

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1931

```

Met Ala Arg Ala Pro Ser Val Ala Leu Ala Gln Leu Trp Leu Ile Cys
 1          5          10          15
Leu Cys Pro Glu Ser Leu Ala Ser Phe Val Gln Ala Val Pro Trp Lys
          20          25          30
Val Leu Gln Pro Ser Ser Asn Arg Ser Thr Asp Cys Ser Pro His Met

```

		35					40				45								
Arg	Pro	Thr	Cys	Glu	Thr	Leu	Gly	Ser	Arg	Lys	Ala	Gln	Asp	Leu	Gly				
	50					55					60								
Ala	Gly	Tyr	Tyr	Val	Ser	Val	His	*											
65					70		72												

<210> 1932
 <211> 68
 <212> PRT
 <213> Homo sapiens

Met	Lys	Thr	Val	Phe	Thr	Lys	Lys	Leu	Thr	Ala	Ala	Leu	Leu	Ile	Thr				
1				5					10					15					
Val	Pro	Asn	Cys	Lys	Gln	Pro	Arg	Cys	Pro	Ser	Met	Gly	Glu	Trp	Leu				
		20						25					30						
Asn	Lys	Leu	Gln	Tyr	Ile	His	Thr	Met	Lys	Tyr	Tyr	Ser	Thr	Ile	Lys				
	35						40					45							
Val	Asn	Tyr	Trp	Pro	Gly	Thr	Val	Ala	His	Thr	Cys	Asn	Pro	Ser	Thr				
	50					55					60								
Leu	Gly	Gly	*																
65		67																	

<210> 1933
 <211> 47
 <212> PRT
 <213> Homo sapiens

Met	Gln	Gln	Arg	Lys	Met	Arg	Leu	Val	Trp	Arg	Ser	Tyr	Trp	Ser	Met				
1				5					10					15					
Val	Gln	Thr	Pro	Met	Leu	Trp	Met	Ala	Thr	Glu	Ile	Pro	His	Phe	Thr				
		20						25					30						
Gly	Gln	Pro	Leu	Arg	Thr	Met	Leu	Ser	Val	Cys	Gly	Leu	Ser	*					
	35						40					45	46						

<210> 1934
 <211> 86
 <212> PRT
 <213> Homo sapiens

Met	Cys	Trp	Ser	Pro	Leu	Thr	Gly	Trp	Ala	Leu	Ser	Ser	Ser	Arg	Cys				
1				5					10					15					
Arg	Leu	Ser	Trp	Pro	Leu	Thr	Ser	Phe	Gly	Ser	Thr	Ala	Ser	Cys	Arg				
		20						25					30						
Pro	Thr	Thr	Gly	Trp	Arg	Gly	Leu	Met	Trp	Leu	Gln	Ala	Leu	Ser	Ser				
	35					40					45								
Ser	Gly	Tyr	Pro	Ser	Leu	Cys	Thr	Leu	Tyr	Ser	Glu	Leu	Leu	Val	Gln				
	50					55					60								

Ala Val His Arg Lys Ala Gly Asp Thr Glu Val Gln Gln Ser Leu Leu
 65 70 75 80
 Leu Leu Leu Lys Lys *
 85

<210> 1935
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1935
 Met Gly Glu Val Pro Lys Ala His Arg Leu Lys Leu Arg Trp Leu Phe
 1 5 10 15
 Pro Val Ser Leu Cys Arg Ala Pro Leu Ser Thr Ala His Leu Ala
 20 25 30
 Leu Leu Leu Pro Cys Cys Leu Leu Cys Ser Ser Cys Tyr Tyr Phe Pro
 35 40 45
 Phe Leu Ser Leu Leu Pro Pro Trp Pro Asn Leu Phe His Arg Asn Ile
 50 55 60
 Thr Gly Pro Ala Arg His Ser Gly Ser Pro Leu *
 65 70 75

<210> 1936
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1936
 Met Leu Leu Gln Thr Phe Val Thr Thr Cys Ile Ser Tyr Phe Tyr Trp
 1 5 10 15
 His Phe Asn Phe Val Trp Ile Gln Phe Asn Val Cys Arg Val Leu Ser
 20 25 30
 Phe Gln Pro Glu Arg Leu Thr Leu Ala Phe Leu Ile Gly Gln Val Tyr
 35 40 45 48
 *

<210> 1937
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1937
 Met Lys Gly Arg Phe Leu Phe Pro Leu Arg Leu Leu Leu Trp Met Cys
 1 5 10 15
 Leu His Leu Gln Arg Gln Ala Ser Glu Leu His Gln Pro Ser Met Pro
 20 25 30
 Gly Cys Pro Leu Thr Ser Ser Ser Arg Leu Phe Asp Asn Ala Gln Met
 35 40 45
 His Gln Phe Leu Asn Ile His Val Lys Phe Glu Asn Cys Thr Phe Gly

50 55 60
 Glu Ile Lys Phe Tyr Ile Gln Leu Ala Lys Lys Lys
 65 70 75 76

<210> 1938
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 1938
 Met Ala Asp Glu Lys Thr Phe Arg Ile Gly Phe Ile Val Leu Gly Leu
 1 5 10 15
 Phe Leu Leu Ala Leu Gly Thr Phe Leu Met Ser His Asp Arg Pro Gln
 20 25 30
 Val Tyr Gly Thr Phe Tyr Ala Met Gly Ser Val Met Val Ile Gly Gly
 35 40 45
 Ile Ile Trp Ser Met Cys Gln Cys Tyr Pro Lys Ile Thr Phe Val Pro
 50 55 60
 Ala Asp Ser Asp Phe Gln Gly Ile Leu Ser Pro Lys Ala Met Gly Leu
 65 70 75 80
 Leu Glu Asn Gly Leu Ala Ala Glu Met Lys Ser Pro Ser Pro Gln Pro
 85 90 95
 Pro Tyr Val Arg Leu Trp Glu Glu Ala Ala Tyr Asp Gln Ser Leu Pro
 100 105 110
 Asp Phe Ser His Ile Gln Met Lys Val Met Ser Tyr Ser Glu Asp His
 115 120 125
 Arg Ser Leu Leu Ala Pro Glu Met Gly Gln Pro Lys Leu Gly Thr Ser
 130 135 140
 Asp Gly Gly Glu Gly Gly Pro Gly Asp Val Gln Ala Trp Met Glu Ala
 145 150 155 160
 Ala Val Val Ile His Lys Gly Leu Asn Glu Ser Glu Gly Glu Arg Arg
 165 170 175
 Leu Thr Gln Ser Trp Pro Gly Pro Leu Ala Cys Pro Gln Gly Pro
 180 185 190 191

<210> 1939
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1939
 Met Val Arg Ser Ile Arg Leu Leu Phe Phe Phe Gly Trp Gly Phe Ser
 1 5 10 15
 Thr Thr Gln Gln Pro Ser Leu Cys Gln Asn Ser Leu Met Phe Pro Asp
 20 25 30
 Gly Ser Ser Phe Thr Pro Leu Ser Glu Ala Pro Lys Gly Ser Phe Pro
 35 40 45
 Gly Val Trp Thr Thr His Ser Ser Leu Ser Pro Asp Thr Pro Pro Pro
 50 55 60
 Trp Val His Ser Ala Gly Trp Val Gln Thr Lys Trp Asn Pro Trp Asn
 65 70 75 80
 Leu *
 81

<210> 1940
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 1940
 Met His Val Cys Leu His Ile Trp Gly Leu Gly Val Cys Val Phe Met
 1 5 10 15
 His Met Met Cys Ala Cys Val Gly Val Tyr Val Cys Pro Phe Met Arg
 20 25 30
 Tyr Gly Met Gln Ile Cys Ala Cys Ile His Ala His Ser Cys Ser Ala
 35 40 45
 Cys Val Cys Ser Cys Ile Trp Cys Met His Gly Cys Ser Tyr Leu Trp
 50 55 60
 Gly Thr Gly Ile Met His Val Cys Ser Ser Val Trp Gly Val Gly Ile
 65 70 75 80
 Pro Gly Leu Trp Pro Glu Ala Pro Leu Gln Asp Thr Ala Pro Cys Arg
 85 90 95
 Leu Pro Arg Gly *
 100

<210> 1941
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1941
 Met Lys Ala Ser Val Leu Ser Pro Ser Phe Leu Leu Val Leu Trp Ser
 1 5 10 15
 Cys Phe Leu Ser Cys Ser Cys Met Glu Pro Gln Ser Gly Phe Pro Arg
 20 25 30
 Pro Ser Cys Phe Thr Val Gly Phe Leu Leu Arg Arg Arg Thr Lys Thr
 35 40 45
 Arg Arg Gln Lys Ala Thr Asn Thr Val Lys Met Arg Thr Thr Lys Ile
 50 55 60
 Leu Lys Ile Lys Ile Asp Lys Arg Arg Trp Pro Thr Arg Met Ser Ser
 65 70 75 80
 Lys Trp Asn Pro Lys Glu Trp *
 85 87

<210> 1942
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1942
 Met Arg Ser Met Gly Phe Arg Ala Gln Gly Leu Pro Phe Gly Ile Arg
 1 5 10 15
 Gln Thr Trp Leu Arg Ile Leu Asp Leu Leu Leu Thr Cys Thr Leu Pro

Phe Gly Ser Arg Asp Val Lys Trp Arg Cys Cys His Leu *

20 25 30

35 40 45

```
<210> 1943
<211> 155
<212> PRT
<213> Homo sapiens
```

<400> 1943															
Met 1	Phe	Thr	Leu	Leu	Val	Leu	Leu	Ser	Gln	Leu	Pro	Thr	Val	Thr	Leu
				5					10					15	
Gly	Phe	Pro	His	Cys	Ala	Arg	Gly	Pro	Lys	Ala	Ser	Lys	His	Ala	Gly
			20					25					30		
Glu	Glu	Val	Phe	Thr	Ser	Lys	Glu	Glu	Ala	Asn	Phe	Phe	Ile	His	Arg
		35					40					45			
Arg	Leu	Leu	Tyr	Asn	Arg	Phe	Asp	Leu	Glu	Leu	Phe	Thr	Pro	Gly	Asn
	50					55					60				
Leu	Glu	Arg	Glu	Cys	Asn	Glu	Glu	Leu	Cys	Asn	Tyr	Glu	Glu	Ala	Arg
	65				70					75				80	
Glu	Ile	Phe	Val	Asp	Glu	Asp	Lys	Thr	Ile	Ala	Phe	Trp	Gln	Glu	Tyr
				85					90				95		
Ser	Ala	Lys	Gly	Pro	Thr	Thr	Lys	Ser	Asp	Gly	Asn	Arg	Glu	Lys	Ile
			100					105					110		
Asp	Val	Met	Gly	Leu	Leu	Thr	Gly	Leu	Ile	Ala	Ala	Gly	Val	Phe	Leu
		115					120					125			
Val	Ile	Phe	Gly	Leu	Leu	Gly	Tyr	Tyr	Leu	Cys	Ile	Thr	Lys	Cys	Asn
	130					135					140				
Arg	Leu	Gln	His	Pro	Cys	Ser	Ser	Ala	Val	Tyr					
145					150					155					

```
<210> 1944 .
<211> 61
<212> PRT
<213> Homo sapiens
```

<400> 1944															
Met	Cys	Gln	His	Val	Gln	Leu	Ile	Phe	Val	Phe	Phe	Val	Glu	Thr	Gly
1				5					10					15	
Phe	His	His	Val	Ala	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Gly	Ser	Ser	Asp
			20				25						30		
Leu	Pro	Thr	Ser	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Lys	Gly	Ile	Ser	His
		35				40						45			
His	Val	Gln	Leu	Lys	Phe	Leu	Ile	Ile	Asn	Asn	Phe	*			
50						55					60				

```
<210> 1945
<211> 79
<212> PRT
<213> Homo sapiens
```

<400> 1945

```

Met Gln Leu Ile Leu Trp Leu Pro Trp Tyr Val Asp Gln Thr Phe Cys
 1              5              10              15
His Ser Val Leu Gln Cys Cys Cys Pro Gly Gln Leu Cys Gln Ser Phe
              20              25              30
His Ser Asn Arg Asn Asp Ala Arg Leu Leu Gly Ala Lys Gln Ser Ile
              35              40              45
Met Arg Arg Lys Arg Trp Leu Glu Pro Ser Val Arg Glu Cys Ala Pro
              50              55              60
Gly Met Ile Leu Tyr Lys Ile Gln Ser Tyr Leu Lys Ile Gln *
 65              70              75              78

```

<210> 1946

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1946

```

Met Leu Arg Trp Gly Phe Leu Glu Ile Leu Phe Leu Arg Ser Trp Phe
 1              5              10              15
His Ser Trp Ile Cys Leu Leu Pro Thr Pro Gln Leu Pro Pro Asn Gly
              20              25              30
Ala Ser Ala Gly Ser Gln Asp Glu Gly Ser Arg Arg Arg Leu Ser Leu
              35              40              45
Glu Val Arg Gly Leu Met Asn His Val Pro Asn Leu Cys Val Ala Phe
              50              55              60
Leu Ser Ile Val Ser Ile Ser *
 65              70              71

```

<210> 1947

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1947

```

Met Trp Asn Val Ala Phe Leu Phe Gln Trp Phe Leu Ser Leu Lys Lys
 1              5              10              15
Glu Gly Arg Ser Ser Val Glu Thr Lys Asp Arg Arg Ser Val Arg Asp
              20              25              30
Leu Trp Gly Met Pro Lys Lys Met Val Ser Phe Gly Gly Glu Trp Leu
              35              40              45
Arg Glu Gly Leu Arg Glu Val *
              50              55

```

<210> 1948

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1948

```

Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala
 1          5          10          15
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
          20          25          30
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly *
          35          40          45          47

```

<210> 1949

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1949

```

Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1          5          10          15
His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
          20          25          30
Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
          35          40          45
Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
          50          55          60
Lys Glu Gln Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
          65          70          75          80
Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
          85          90          95
Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
          100          105          110
Thr Ile Thr Tyr Ser Tyr Ala Gly Ala Lys Arg Pro Gln Gly His Gly
          115          120          125
Phe Phe Cys Phe Leu Lys Ala Lys
          130          135 136

```

<210> 1950

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1950

```

Met Trp Ile Tyr Phe Trp Thr Leu Asn Ser Val Pro Val Ile Tyr Met
 1          5          10          15
Ser Thr Leu Met Ser Ile Pro His Tyr Phe Asp Tyr Cys Cys Phe Ile
          20          25          30
Val Ser Asp Ile Met Leu Pro Glu Ile Thr Phe Ser Thr Phe Ile Leu
          35          40          45
Leu Leu Met Val Ala Leu Ala Ile Arg Gly Pro Leu His Phe Arg Arg
          50          55          60
His Phe Arg Ile Asn Leu Ser Ile Ala Thr Lys Asn Ala *
          65          70          75          77

```

<210> 1951

<211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1951
 Met Val Cys Gly Ala Leu Met Trp Ile Met Leu Ile Leu Val Gly Leu
 1 5 10 15
 Gly Phe Pro Phe Ile Met Glu Ala Leu Ser His Phe Leu Tyr Val Pro
 20 25 30
 Phe Leu Gly Val Cys Val Cys Gly Ala Ile Tyr Thr Gly Leu Phe Leu
 35 40 45
 Pro Glu Thr Lys Gly Lys Thr Phe Gln Glu Ile Ser Lys Glu Leu His
 50 55 60
 Arg Leu Asn Phe Pro Arg Arg Ala Gln Gly Pro Thr Trp Arg Ser Leu
 65 70 75 80
 Glu Val Ile Gln Ser Thr Glu Leu *
 85 88

<210> 1952
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1952
 Met Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu
 1 5 10 15
 Leu Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe
 20 25 30
 Val Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe *
 35 40 45 46

<210> 1953
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1953
 Met Lys Asn Leu Arg Leu Gly Glu Val Val Thr Leu Ser Trp Val Leu
 1 5 10 15
 Val Val Glu Leu Glu Val Lys Ala Lys Ser Val Phe Leu Leu Ala Ile
 20 25 30
 Leu Thr Thr Glu Phe Ser Leu Asn Gln Ser Leu Lys Met Phe Leu Gly
 35 40 45
 Gln Glu Trp Trp Phe Thr Leu *
 50 55

<210> 1954
 <211> 425
 <212> PRT
 <213> Homo sapiens

<400> 1954

Met	Thr	Leu	Arg	Pro	Gly	Thr	Met	Arg	Leu	Ala	Cys	Met	Phe	Ser	Ser
1				5					10					15	
Ile	Leu	Leu	Phe	Gly	Ala	Ala	Gly	Leu	Leu	Leu	Phe	Ile	Ser	Leu	Gln
			20					25					30		
Asp	Pro	Thr	Glu	Leu	Ala	Pro	Gln	Gln	Val	Pro	Gly	Ile	Lys	Phe	Asn
		35					40					45			
Ile	Arg	Pro	Arg	Gln	Pro	His	His	Asp	Leu	Pro	Pro	Gly	Gly	Ser	Gln
	50					55					60				
Asp	Gly	Asp	Leu	Lys	Glu	Pro	Thr	Glu	Arg	Val	Thr	Arg	Asp	Leu	Ser
65					70					75					80
Ser	Gly	Ala	Pro	Arg	Gly	Arg	Asn	Leu	Pro	Ala	Pro	Asp	Gln	Pro	Gln
				85					90					95	
Pro	Pro	Leu	Gln	Arg	Gly	Thr	Arg	Leu	Arg	Leu	Arg	Gln	Arg	Arg	Arg
			100					105					110		
Arg	Leu	Leu	Ile	Lys	Lys	Met	Pro	Ala	Ala	Ala	Thr	Ile	Pro	Ala	Asn
	115						120					125			
Ser	Ser	Asp	Ala	Pro	Phe	Ile	Arg	Pro	Gly	Pro	Gly	Thr	Leu	Asp	Gly
130						135					140				
Arg	Trp	Val	Ser	Leu	His	Arg	Ser	Gln	Gln	Glu	Arg	Lys	Arg	Val	Met
145					150					155					160
Gln	Glu	Ala	Cys	Ala	Lys	Tyr	Arg	Ala	Ser	Ser	Ser	Arg	Arg	Ala	Val
				165					170					175	
Thr	Pro	Arg	His	Val	Ser	Arg	Ile	Phe	Val	Glu	Asp	Arg	His	Arg	Val
			180					185					190		
Leu	Tyr	Cys	Glu	Val	Pro	Lys	Ala	Gly	Cys	Ser	Asn	Trp	Lys	Arg	Val
	195						200					205			
Leu	Met	Val	Leu	Ala	Gly	Leu	Ala	Ser	Ser	Thr	Ala	Asp	Ile	Gln	His
210						215					220				
Asn	Thr	Val	His	Tyr	Gly	Ser	Ala	Leu	Lys	Arg	Leu	Asp	Thr	Phe	Asp
225					230					235					240
Arg	Gln	Gly	Ile	Leu	His	Arg	Leu	Ser	Thr	Tyr	Thr	Lys	Met	Leu	Phe
				245					250					255	
Val	Arg	Glu	Pro	Phe	Glu	Arg	Leu	Val	Ser	Ala	Phe	Arg	Asp	Lys	Phe
			260					265					270		
Glu	His	Pro	Asn	Ser	Tyr	Tyr	His	Pro	Val	Phe	Gly	Lys	Ala	Ile	Leu
	275						280					285			
Ala	Arg	Tyr	Arg	Ala	Asn	Ala	Ser	Arg	Glu	Ala	Leu	Arg	Thr	Gly	Ser
	290				295						300				
Gly	Val	Arg	Phe	Pro	Glu	Phe	Val	Gln	Tyr	Leu	Leu	Asp	Val	His	Arg
305					310					315					320
Pro	Val	Gly	Met	Asp	Ile	His	Trp	Asp	His	Val	Ser	Arg	Leu	Cys	Ser
				325					330					335	
Pro	Cys	Leu	Ile	Asp	Tyr	Asp	Phe	Val	Gly	Lys	Phe	Glu	Ser	Met	Glu
		340						345					350		
Asp	Asp	Ala	Asn	Phe	Phe	Leu	Ser	Leu	Ile	Arg	Ala	Pro	Arg	Asn	Leu
		355					360					365			
Thr	Phe	Pro	Arg	Phe	Lys	Asp	Arg	His	Ser	Gln	Glu	Ala	Arg	Thr	Thr
	370					375						380			
Ala	Arg	Ile	Ala	His	Gln	Tyr	Phe	Ala	Gln	Leu	Ser	Ala	Leu	Gln	Arg
385					390					395					400
Gln	Arg	Thr	Tyr	Asp	Phe	Tyr	Tyr	Met	Asp	Tyr	Leu	Met	Phe	Asn	Tyr
			405						410					415	
Ser	Lys	Pro	Phe	Ala	Asp	Leu	Tyr	*							
			420				424								

<210> 1955
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1955
 Met Val Cys Phe Leu Phe Ile Thr Pro Leu Ala Ala Ile Ser Gly Trp
 1 5 10 15
 Leu Cys Leu Arg Gly Ala Gln Asp His Leu Arg Leu His Ser Gln Leu
 20 25 30
 Glu Ala Val Gly Leu Ile Ala Leu Thr Ile Ala Leu Phe Thr Ile Tyr
 35 40 45
 Val Leu Trp Thr Leu Val Ser Phe Arg Tyr His Cys Gln Leu Tyr Ser
 50 55 60
 Glu Trp Arg Lys Thr Asn Gln Lys Val Arg Leu Lys Ile Arg Glu Ala
 65 70 75 80
 Asp Ser Pro Glu Gly Pro Gln His Ser Pro Leu Ala Ala Gly Leu Leu
 85 90 95
 Lys Lys Val Ala Glu Glu Thr Pro Val *
 100 105

<210> 1956
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1956
 Met Val Leu Pro Phe Ile Cys Asn Leu Leu Arg Arg His Pro Ala Cys
 1 5 10 15
 Arg Val Leu Val His Arg Pro His Gly Pro Glu Leu Asp Ala Asp Pro
 20 25 30
 Tyr Asp Pro Gly Glu Glu Asp Pro Ala Gln Ser Arg Ala Leu Glu Ser
 35 40 45
 Ser Leu Trp Glu Leu Gln Ala Leu Gln Arg His Tyr His Pro Glu Val
 50 55 60
 Ser Lys Ala Ala Ser Val Ile Asn Gln Ala Leu Ser Met Pro Glu Val
 65 70 75 80
 Ser Ile Ala Pro Leu Leu Glu Leu Thr Ala Tyr Glu Ile Phe Glu Arg
 85 90 95
 Asp Leu Lys Lys Lys Gly Pro Glu Pro Val Pro Thr Gly Val Leu Ser
 100 105 110
 Gln Pro Arg Ala Cys Trp Asp Gly Arg Val Lys Leu Cys Ala Gln His
 115 120 125
 Phe His Ala Gln Leu Thr Leu Ala His Leu *
 130 135 138

<210> 1957
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1957

```

Met Ala Ala Pro Trp Arg Arg Trp Pro Thr Gly Leu Leu Ala Val Leu
 1          5          10          15
Arg Pro Leu Leu Thr Cys Arg Pro Leu Gln Gly Thr Thr Leu Gln Arg
          20          25          30
Asp Gly Leu Leu Phe Glu His Asp Arg Gly Arg Phe Phe Thr Ile Leu
          35          40          45
Gly Leu Val Cys Ala Gly Gln Gly Gly Phe Trp Ala Ser Met Ala Gly
          50          55          60
Ala Gly Ala Leu Arg Thr Pro Gly Pro Leu Gln Gly Met Asn Val Glu
          65          70          75          80
Arg His Glu Leu Leu Phe *
          85 86

```

<210> 1958

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1958

```

Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp
 1          5          10          15
Val Ala Leu Ala Glu Gly Leu Gly Val Ala Glu Tyr Ala Pro Ala Ala
          20          25          30
Leu Pro Cys Ala Ala Cys Ala Thr Ile Leu Leu Ser Ser Val Ala *
          35          40          45          47

```

<210> 1959

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1959

```

Met Trp Ser Leu Ile Gln Thr Leu Gln Ile Leu Pro Gly Ser Leu Ser
 1          5          10          15
Ile Leu Leu Cys Ser Ser Ala Gly Trp Lys Asp Cys Gln Ser Ala Leu
          20          25          30
Trp Leu Asn His Val Phe Arg Arg Ala Trp Trp Leu Leu Pro Val Ile
          35          40          45
Leu Ala Leu Trp Glu Ala Glu Ala Gly Gly Ser Pro Glu Val Arg Ser
          50          55          60          64
*
```

<210> 1960

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1960

```

Met Ser Tyr Val Arg His Val Leu Ser Cys Leu Gly Gly Gly Leu Ala
 1          5          10          15
Leu Trp Arg Ala Gly Gln Trp Leu Trp Ala Gln Arg Leu Gly His Cys
          20          25          30
His Thr Tyr Trp Ala Val Ser Glu Leu Leu Pro Asn Ser Gly His
          35          40          45
Gly Pro Asp Gly Glu Val Pro Lys Asp Lys Glu Gly Gly Val Phe Asp
          50          55          60
Leu Gly Pro Phe Ile Val Gly Phe Trp Gly Pro Gln Ile *
65          70          75          77

```

```

<210> 1961
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1961
Met Trp Tyr Gly Val Phe Leu Trp Ala Leu Val Ser Ser Leu Phe Phe
 1          5          10          15
His Val Pro Ala Gly Leu Leu Ala Leu Phe Thr Leu Arg His His Lys
          20          25          30
Tyr Gly Ala Ala Ile Ala Gly Val Tyr Arg Ala Ala Gly Lys Glu Met
          35          40          45
Ile Pro Phe Glu Ala Leu Thr Leu Gly Thr Gly Gln Thr Phe Cys Val
          50          55          60
Leu Val Val Ser Phe Leu Arg Ile Leu Ala Thr Leu *
65          70          75          76

```

```

<210> 1962
<211> 65
<212> PRT
<213> Homo sapiens

```

```

<400> 1962
Met Phe Ser Ala Val Phe Pro Ala Val Ser Cys Gln Ile Ser Leu Leu
 1          5          10          15
Ser Thr Cys Asn Ser Leu Gln His Phe Pro Tyr Ala Gly Val Leu Cys
          20          25          30
Phe Arg Pro Val Leu Cys Leu Cys Pro Gly Gln Asp Phe Cys Gly Asn
          35          40          45
Val Arg Cys Gln Trp Arg Leu Leu Ala Gly Val Asp Val Ser Asp Val
          50          55          60          64
*
```

```

<210> 1963
<211> 53
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature

```

<222> (1)...(53)

<223> Xaa = any amino acid or nothing

<400> 1963

```

Met Thr Cys Pro Leu His Thr Thr Pro Phe Pro Phe Ser Leu Pro Cys
 1      5      10      15
Leu Pro Thr Phe Phe Leu Asp Phe Pro Ser Cys Ser Leu Ser Ser Cys
      20      25      30
Leu Pro Ile Cys Phe Pro Phe Leu Ser Leu Xaa Gln Ile Leu His Ile
      35      40      45
Val Ala Leu Leu Ile
      50      53

```

<210> 1964

<211> 232

<212> PRT

<213> Homo sapiens

<400> 1964

```

Met Pro Ser Val His Arg Leu Leu Gly Pro Gln Pro Val Pro Ser Arg
 1      5      10      15
Arg Leu Arg Leu Ala Leu Ala Leu Leu Ser Leu Gln Val Val Val
      20      25      30
Phe Phe Leu Val Val Leu Gly Gln Gly Arg Leu Leu Gln Pro Cys Arg
      35      40      45
Gly Cys Leu Glu Leu Pro Gly Gly Pro Gly Glu Ala Glu Asp His Gly
      50      55      60
Asp Leu Gly Gln Gly Trp Val Gly Leu Leu Gln Ala Leu Asp Pro Leu
      65      70      75      80
Ser His Arg Arg Leu Val Met Ser Thr Arg His Ala His Gly Glu Asp
      85      90      95
Arg Ala Phe Leu His Phe Ile Asp Val Lys Leu Val Val Val Pro Ala
      100      105      110
Thr Pro His Ile Leu Gln Val Gln Leu His Arg Val Val Glu Val Pro
      115      120      125
Leu Leu Arg Arg Leu Phe His Phe Pro Leu Leu Arg Gly Gln Gln Val
      130      135      140
Ser Ser Glu Asp Val Val Ile His Thr Leu Val Ala Glu Pro Gln Gly
      145      150      155      160
Glu Gly Ala Leu Asn Lys Asp Arg Pro Gly Trp Ile Val Ala Gly Gln
      165      170      175
Gly Gly Leu Leu Ile Gly Thr Leu Asp Ser Trp Cys Gly Asp Ile His
      180      185      190
Ala Leu Cys Pro Thr Met Trp Gly Trp Gly Gly Ser Ala Ala Pro Val
      195      200      205
Glu Ser Leu Gly Lys Gly Thr Ser Gly Glu Gly Asp Gly Arg Arg Gln
      210      215      220
Gly Gln Arg Thr Gly Pro Gly *
      225      230 231

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<210> 1965

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1965

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Met Gly Cys Ala Ile Ile Ala Gly Phe Leu His Tyr Leu Phe Leu Ala
 1      5      10      15
Cys Phe Phe Trp Met Leu Val Glu Ala Val Ile Leu Phe Leu Met Val
      20      25      30
Arg Asn Leu Lys Val Val Asn Tyr Phe Ser Ser Arg Asn Ile Lys Met
      35      40      45
Leu His Ile Cys Ala Phe Gly Tyr Gly Leu Pro Met Leu Val Val Val
      50      55      60
Ile Ser Ala Ser Val Gln Pro Gln Gly Tyr Gly Met His Asn Arg Cys
 65      70      75      80
Trp Leu Asn Thr Glu Thr Gly Phe Ile Trp Ser Phe Leu Gly Pro Val
      85      90      95
Cys Thr Val Ile Val Ile Asn Ser Leu Leu Thr Trp Thr Leu Trp
      100      105      110
Ile Leu Arg Gln Arg Leu Ser Ser Val Asn Ala Glu Val Ser Thr Leu
      115      120      125
Lys Asp Thr Arg Leu Leu Thr Phe Lys Ala Phe Ala Gln Leu Phe Ile
 130      135      140
Leu Gly Cys Ser Trp Val Leu Gly Ile Phe Gln Ile Gly Pro Val Ala
 145      150      155      160
Gly Val Met Ala Tyr Leu Phe His His His Gln Gln Pro Ala Gly Gly
      165      170      175
Leu His Leu Pro His Pro Leu Ser Ala Gln Arg Pro Gly Thr Arg Arg
      180      185      190
Ile Gln Glu Val Asp His Trp Glu Asp Glu Ala Gln Leu Pro Val Pro
      195      200      205
Asp Leu Lys Asp Leu Ala Val Leu His Ala Ile Arg Phe Gln Asp Gly
 210      215      220
Leu Lys Ser Phe Leu Ala Phe Lys Tyr Ala Met Glu Pro Thr Val Gly
 225      230      235      240
Gly Thr Ser Ser Phe Pro Cys Arg Glu Pro Tyr Pro *
      245      250      252

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<210> 1966

<211> 649

<212> PRT

<213> Homo sapiens

<400> 1966

```

Met Val Thr Cys Phe Ile Ile Gly Leu Leu Phe Pro Val Phe Ser Val
 1      5      10      15
Cys Tyr Leu Ile Ala Pro Lys Ser Pro Leu Gly Leu Phe Ile Arg Lys
      20      25      30
Pro Phe Ile Lys Phe Ile Cys His Thr Ala Ser Tyr Leu Thr Phe Leu
      35      40      45
Phe Leu Leu Leu Leu Ala Ser Gln His Ile Asp Arg Ser Asp Leu Asn
      50      55      60
Arg Gln Gly Pro Pro Pro Thr Ile Val Glu Trp Met Ile Leu Pro Trp
      65      70      75      80
Val Leu Gly Phe Ile Trp Gly Glu Ile Lys Gln Met Trp Asp Gly Gly
      85      90      95
Leu Gln Asp Tyr Ile His Asp Trp Trp Asn Leu Met Asp Phe Val Met

```


			100					105				110					
Asn	Ser	Leu	Tyr	Leu	Ala	Thr	Ile	Ser	Leu	Lys	Ile	Val	Ala	Phe	Val		
		115					120					125					
Lys	Tyr	Ser	Ala	Leu	Asn	Pro	Arg	Glu	Ser	Trp	Asp	Met	Trp	His	Pro		
	130					135					140						
Thr	Leu	Val	Ala	Glu	Ala	Leu	Phe	Ala	Ile	Ala	Asn	Ile	Phe	Ser	Ser		
145					150					155					160		
Leu	Arg	Leu	Ile	Ser	Leu	Phe	Thr	Ala	Asn	Ser	His	Leu	Gly	Pro	Leu		
			165						170					175			
Gln	Ile	Ser	Leu	Gly	Arg	Met	Leu	Leu	Asp	Ile	Leu	Lys	Phe	Leu	Phe		
		180						185					190				
Ile	Tyr	Cys	Leu	Val	Leu	Leu	Ala	Phe	Ala	Asn	Gly	Leu	Asn	Gln	Leu		
	195						200					205					
Tyr	Phe	Tyr	Tyr	Glu	Glu	Thr	Lys	Gly	Leu	Thr	Cys	Lys	Gly	Ile	Arg		
	210					215					220						
Cys	Glu	Lys	Gln	Asn	Asn	Ala	Phe	Ser	Thr	Leu	Phe	Glu	Thr	Leu	Gln		
225					230					235					240		
Ser	Leu	Phe	Trp	Ser	Ile	Phe	Gly	Leu	Ile	Asn	Leu	Tyr	Val	Thr	Asn		
			245						250					255			
Val	Lys	Ala	Gln	His	Glu	Phe	Thr	Glu	Phe	Val	Gly	Ala	Thr	Met	Phe		
		260						265					270				
Gly	Thr	Tyr	Asn	Asp	Ile	Ser	Leu	Val	Val	Leu	Leu	Asn	Met	Leu	Ile		
	275						280					285					
Ala	Met	Met	Asn	Asn	Ser	Tyr	Gln	Leu	Ile	Ala	Asp	His	Ala	Asp	Ile		
	290					295					300						
Glu	Trp	Lys	Phe	Ala	Arg	Thr	Lys	Leu	Trp	Met	Ser	Tyr	Phe	Glu	Glu		
305					310					315					320		
Gly	Gly	Thr	Leu	Pro	Thr	Pro	Phe	Asn	Val	Ile	Pro	Ser	Pro	Lys	Ser		
			325						330					335			
Leu	Trp	Tyr	Leu	Ile	Lys	Trp	Ile	Trp	Thr	His	Leu	Cys	Lys	Lys	Lys		
		340						345					350				
Met	Arg	Arg	Lys	Pro	Glu	Ser	Phe	Gly	Thr	Ile	Gly	Arg	Arg	Ala	Ala		
	355						360					365					
Asp	Asn	Leu	Arg	Arg	His	His	Gln	Tyr	Gln	Glu	Val	Met	Arg	Asn	Leu		
	370					375					380						
Val	Lys	Arg	Tyr	Val	Ala	Ala	Met	Ile	Arg	Asp	Ala	Lys	Thr	Glu	Glu		
385					390					395					400		
Gly	Leu	Thr	Glu	Glu	Asn	Phe	Lys	Glu	Leu	Lys	Gln	Asp	Ile	Ser	Ser		
			405						410					415			
Phe	Arg	Phe	Glu	Val	Leu	Gly	Leu	Leu	Arg	Gly	Ser	Lys	Leu	Ser	Thr		
		420						425					430				
Ile	Gln	Ser	Ala	Asn	Ala	Ser	Lys	Glu	Ser	Ser	Asn	Ser	Ala	Asp	Ser		
	435						440					445					
Asp	Glu	Lys	Ser	Asp	Ser	Glu	Gly	Asn	Ser	Lys	Asp	Lys	Lys	Lys	Asn		
	450					455					460						
Phe	Ser	Leu	Phe	Asp	Leu	Thr	Thr	Leu	Ile	His	Pro	Arg	Ser	Ala	Ala		
465					470					475					480		
Ile	Ala	Ser	Glu	Arg	His	Asn	Ile	Ser	Asn	Gly	Ser	Ala	Leu	Val	Val		
			485						490					495			
Gln	Glu	Pro	Pro	Arg	Glu	Lys	Gln	Arg	Lys	Val	Asn	Phe	Val	Thr	Asp		
		500						505					510				
Ile	Lys	Asn	Phe	Gly	Leu	Phe	His	Arg	Arg	Ser	Lys	Gln	Asn	Ala	Ala		
	515						520					525					
Glu	Gln	Asn	Ala	Asn	Gln	Ile	Phe	Ser	Val	Ser	Glu	Glu	Val	Ala	Arg		
	530					535					540						
Gln	Gln	Ala	Ala	Gly	Pro	Leu	Glu	Arg	Asn	Ile	Gln	Leu	Glu	Ser	Arg		
545					550					555					560		
Gly	Leu	Ala	Ser	Arg	Gly	Asp	Leu	Ser	Ile	Pro	Gly	Leu	Ser	Glu	Gln		
			565						570					575			

Cys Val Leu Val Asp His Arg Glu Arg Asn Thr Asp Thr Leu Gly Leu
 580 585 590
 Gln Val Gly Lys Arg Val Cys Pro Phe Lys Ser Glu Lys Val Val Val
 595 600 605
 Glu Asp Thr Val Pro Ile Ile Pro Lys Glu Lys His Ala Lys Glu Glu
 610 615 620
 Asp Ser Ser Ile Asp Tyr Asp Leu Asn Leu Pro Asp Thr Val Thr His
 625 630 635 640
 Glu Asp Tyr Val Thr Thr Arg Leu *
 645 648

<210> 1967
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1967
 Met Thr Gly Thr His Gln Tyr Ala Trp Val Ile Phe Val Phe Leu Ser
 1 5 10 15
 Thr Tyr Arg Ile Ser Pro Cys Trp Pro Gly Trp Phe Gln Thr Pro Gly
 20 25 30
 Leu Arg Trp Ser Ala Cys Leu Gly Leu Pro Gly Cys Trp Asp Cys Arg
 35 40 45
 Arg Glu Pro Leu Gly Pro Ala Cys Ile Phe Tyr Gln Pro Gln Ile Gln
 50 55 60
 Gln Gln Ala Glu Asp Ser Ala His Lys Thr Gly Leu Val Ser Trp *
 65 70 75 79

<210> 1968
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1968
 Met Thr Tyr Ile Leu Val Tyr Lys Leu Gly Ser Ile Leu Leu Ser Phe
 1 5 10 15
 Phe Leu Ile Cys Phe Glu Glu Phe Ser Glu Asn Ser Gly Pro Gly
 20 25 30
 Ile Phe Phe Val Glu Arg Val Leu Ile Leu Asn Leu Ile Ser Leu Ile
 35 40 45 48
 *

<210> 1969
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1969
 Met His Val His Phe Trp Leu Val Thr Ala Ser Phe Ser Ser Ser Val

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      1           5           10           15
Ala Trp Thr Thr Ala Glu Ile Thr Gly Gly Val Ser Gly Val Ala Ala
      20           25           30
Gly Val Gly Ser Trp Glu Gly Gly Ser Glu Arg Gly Asp Arg Phe Gly
      35           40           45
Asp Phe Phe Thr Leu Asn Val Ser Val Phe Arg Gly Val Phe Phe Phe
      50           55           60
Leu Ala Gly Leu Phe Ser Pro Ser Pro Ser Thr Pro Leu Ala Ser Ile
      65           70           75           80
Ala Leu Ala Gly Ile Ser Lys Glu Ala Gly Asp Leu Glu Gly Glu Leu
      85           90           95
Gly Val Leu Glu Asp Val Leu Lys Gly Ser Thr Asp Ser Ser Gln Val
      100           105           110
Ser Gly Ser Lys Leu Tyr Asp Cys Trp Gly Ser Leu Gly Asp Ser Cys
      115           120           125
Ile Phe Glu Val Glu Glu Lys Gly Leu Lys Leu Gly Ser Ser His Leu
      130           135           140
Ser Ile Ser Lys Val *
145           149

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<210> 1970
<211> 48
<212> PRT
<213> Homo sapiens

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      <400> 1970
Met Phe Gly Ser Arg Gly Leu Leu Cys Met Cys Val Phe Phe Phe Asn
      1           5           10           15
Ile Leu Ala Ser Gln Cys Lys Val Ile Ser Ser Gly Gly Met Leu Cys
      20           25           30
Cys Arg Thr Pro Thr Leu Leu Asp Tyr Leu Arg Gln His Phe Leu *
      35           40           45           47

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<210> 1971
<211> 64
<212> PRT
<213> Homo sapiens

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```

      <400> 1971
Met Leu Ile Phe Thr Val Leu Glu Leu Leu Leu Ala Ala Tyr Ser Ser
      1           5           10           15
Val Phe Trp Trp Lys Gln Leu Tyr Ser Asn Asn Pro Gly Val Ser Met
      20           25           30
Leu Thr Cys Arg Leu Ile Pro Ala Val Ser Gln Val Gln Ala Thr Ile
      35           40           45
Ile Gln Pro Gln Lys Val Ala Lys Arg Arg Ile Asn Tyr Cys Ser *
      50           55           60           63

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<210> 1972
<211> 211
<212> PRT

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<213> Homo sapiens

<221> misc_feature

<222> (1)...(211)

<223> Xaa = any amino acid or nothing

<400> 1972

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Met Thr Arg Met Leu Asn Met Leu Ile Val Phe Arg Phe Leu Arg Ile
 1          5          10          15
Ile Pro Ser Met Lys Pro Met Ala Val Val Ala Ser Thr Val Leu Gly
          20          25          30
Leu Val Gln Asn Met Arg Ala Phe Gly Gly Ile Leu Val Val Val Tyr
          35          40          45
Tyr Val Phe Ala Ile Ile Gly Ile Asn Leu Phe Arg Gly Val Ile Val
          50          55          60
Ala Leu Pro Gly Asn Ser Ser Leu Ala Pro Ala Asn Gly Ser Ala Pro
          65          70          75          80
Cys Gly Ser Phe Glu Gln Leu Glu Tyr Trp Ala Asn Asn Phe Asp Asp
          85          90          95
Phe Xaa Ala Ala Leu Val Thr Leu Trp Asn Leu Met Val Val Asn Asn
          100          105          110
Trp Gln Val Phe Leu Asp Ala Tyr Arg Arg Tyr Ser Gly Pro Trp Ser
          115          120          125
Lys Ile Tyr Phe Val Leu Trp Trp Leu Val Ser Ser Val Ile Trp Val
          130          135          140
Asn Leu Phe Leu Ala Leu Ile Leu Glu Asn Phe Leu His Lys Trp Asp
          145          150          155          160
Pro Arg Ser His Leu Gln Pro Leu Ala Gly Thr Pro Glu Ala Thr Tyr
          165          170          175
Gln Met Thr Val Glu Leu Leu Phe Arg Asp Ile Leu Glu Glu Pro Gly
          180          185          190
Glu Asp Glu Leu Thr Glu Arg Leu Ser Gln His Pro His Leu Trp Leu
          195          200          205
Cys Arg *
          210

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<210> 1973

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1973

```

Met Ile Gln Tyr Ala Val Phe Val Leu Cys Gly Phe Leu Tyr Leu Cys
 1          5          10          15
Phe Met Leu Phe Phe Phe Ser Ser Val Thr Gln Ala Gly Val Ser Glu
          20          25          30
Pro Arg Ser Ser His Cys Thr Pro Ala Trp Ala Thr Glu Arg Asp Cys
          35          40          45
Val Ser Asn Lys *
          50          52

```

<210> 1974

<211> 50

<212> PRT
 <213> Homo sapiens

<400> 1974
 Met Gly Val Thr Thr Ala Thr Leu Ile Ala Pro Ala Leu Arg Thr Leu
 1 5 10 15
 Arg Thr Ser Ala Val Cys Ser Thr Thr Ala Glu Thr Ser Phe Ser Ala
 20 25 30
 Cys Thr Phe Val Ser Thr Ser Cys Ser Lys Lys Gly Thr Pro Arg Phe
 35 40 45
 Ser *
 49

<210> 1975
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1975
 Met Cys Ser Ser Pro Ala Val Leu Leu Cys Ala Leu Val Val Gly Cys
 1 5 10 15
 Pro Val Gly Phe Pro His Glu Ala Asp Pro Gly Ser Met Gln Arg Ala
 20 25 30
 Ser Ser Leu Gly Leu His Gln Ala Ser Val Val Ser Ala Gly Trp Leu
 35 40 45
 Gly Gln Ala Arg His Gly Ala His Leu Gly Cys Ser Leu Leu Pro Ser
 50 55 60
 Gly Val His Gly Leu Trp Arg Pro Ser Val Gln Pro Arg Arg Asp Pro
 65 70 75 80
 Val Thr Glu Leu Gln Cys *
 85 86

<210> 1976
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 1976
 Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Ser Tyr Arg
 1 5 10 15
 Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Leu Ala Ala Ala
 20 25 30
 Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe
 35 40 45
 Trp Leu Lys Arg Ser Ser Tyr Glu Glu Gln Pro Thr Val Arg Phe Gln
 50 55 60
 His Gln Val Leu Leu Val Ala Leu Leu Gly Pro Glu Ser Asp Gly Phe
 65 70 75 80
 Leu Ala Trp Ser Thr Phe Pro Ala Phe Asn Arg Gln Gln Gly Asp Arg
 85 90 95
 Leu Arg Val Pro Leu Val Ser Trp Arg Arg *
 100 105 106

<210> 1977
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1977
 Met Val Thr Val Ala Met Ala Cys Ser Gly Ala Leu Thr Ala Leu Cys
 1 5 10 15
 Cys Leu Phe Val Ala Met Gly Val Leu Arg Val Pro Trp His Cys Pro
 20 25 30
 Leu Leu Leu Val Thr Glu Gly Leu Leu Asp Met Leu Ile Ala Gly Gly
 35 40 45
 Tyr Ile Pro Ala Leu Tyr Phe Tyr Phe His Tyr Leu Ser Ala Ala Tyr
 50 55 60
 Gly Ser Pro Val Cys Lys Glu Arg Gln Ala Leu Tyr Gln Ser Lys Gly
 65 70 75 80
 Tyr Ser Gly Phe Gly Cys Ser Phe His Gly Ala Asp Ile Gly Ala Gly
 85 90 95
 Ile Phe Ala Ala Leu Gly Ile Val Val Phe Ala Leu Gly Ala Val Leu
 100 105 110
 Ala Ile Lys Gly Tyr Arg Lys Val Arg Lys Leu Lys Glu Lys Pro Ala
 115 120 125
 Glu Met Phe Glu Phe *
 130 133

<210> 1978
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1978
 Met Thr Leu Arg Met Leu Val Pro Arg Leu Leu Leu Thr Arg Gln Leu
 1 5 10 15
 Val Trp Phe Phe Ser Ala Ala Thr Glu Arg Asp Pro Glu Met Met Asn
 20 25 30
 Gly Ile Pro Arg Lys Leu Met Ser Phe Pro Pro Ser Ser Val Thr Ser
 35 40 45
 Arg Arg Ser Arg Arg Gly His His Leu Gln Ser Leu *
 50 55 60

<210> 1979
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1979
 Met Leu Thr Ala Leu Pro Lys Ser Phe Val Phe Lys Val Val Gly Glu
 1 5 10 15
 Trp Trp Trp Leu Phe Ile Cys Leu Val Leu Ala Phe Ala Asp Gly Lys

			20					25					30				
Arg	His	Lys	Tyr	Ser	Tyr	Asp	Ala	Asn	Val	Phe	Leu	Gln	Val	Asn	Tyr		
		35					40					45					
Ile	Thr	Trp	Pro	Asp	Ser	Phe	Ser	Pro	Val	Pro	Ser	Leu	Pro	Pro	Ile		
	50					55					60						
Leu	*																
65																	

<210> 1980
 <211> 51
 <212> PRT
 <213> Homo sapiens

Met	Asp	Thr	Pro	Arg	Ser	Thr	Val	Phe	Ser	Leu	Trp	Phe	Gly	Ile	His		
1				5					10					15			
Lys	Ala	Ala	Gly	Ile	Phe	Gln	Val	Leu	Val	Gln	Leu	Leu	Leu	Leu	Leu		
			20					25					30				
Thr	Pro	Tyr	Pro	Arg	Tyr	Pro	Ser	Pro	Ser	Pro	Leu	Pro	Pro	Tyr	Ser		
		35					40					45					
Tyr	Pro	*															
50																	

<210> 1981
 <211> 79
 <212> PRT
 <213> Homo sapiens

Met	Met	Trp	Ala	Ala	Gly	Ala	Val	Ala	Ala	Met	Ser	Ser	Ile	Thr	Phe		
1				5					10					15			
Pro	Ala	Val	Ser	Ala	Leu	Val	Ser	Arg	Thr	Ala	Asp	Ala	Asp	Gln	Gln		
			20					25					30				
Gly	Glu	Leu	Ile	Gly	Thr	Ser	Asp	Asn	Tyr	Leu	Lys	Val	Gln	Asn	Val		
		35					40					45					
Leu	Ile	Leu	Cys	Ser	Val	Ser	Tyr	Val	Leu	Lys	His	Lys	Tyr	Ile	Phe		
	50					55					60						
Arg	Gly	Glu	Thr	Phe	Lys	Ile	Ala	Phe	Asp	Ile	Asn	Arg	Lys	Ser			
65					70					75				79			

<210> 1982
 <211> 156
 <212> PRT
 <213> Homo sapiens

Met	His	Asn	Asn	Tyr	Thr	Ala	Leu	Leu	Gly	Val	Trp	Ile	Tyr	Gly	Phe		
1				5					10					15			
Phe	Val	Leu	Met	Leu	Leu	Val	Leu	Asp	Leu	Leu	Tyr	Tyr	Ser	Ala	Met		
			20					25					30				

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Asn Tyr Asp Ile Cys Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly
   35           40           45
Arg Trp Met Lys Gln Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala
   50           55           60
Pro Arg Pro Gly Gln Arg Ala Pro Gln Pro Gln Pro Pro Gly Pro
   65           70           75           80
Leu Pro Gln Ala Pro Gln Ala Val His Thr Leu Arg Gly Asp Ala His
           85           90           95
Ser Pro Pro Leu Met Thr Phe Gln Ser Ser Ser Ala Trp Glu Gly Ala
           100          105          110
Ser Gln Gln Gln Glu Ile Pro Glu Asn Glu Glu Thr Glu Lys Gly Asp
           115          120          125
Asp Gln Ile Ser Ser Phe Leu Gly Val Thr Ser Asn Thr Lys Glu Ala
           130          135          140
Ser Val Ile Gly Ile Gln Lys Thr Val Asp Val Leu
145           150          155 156

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<210> 1983

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1983

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Met Arg Leu Ile Arg Ile Trp Phe Ser Gly Lys Phe Phe Pro Ala Gly
   1           5           10           15
Leu His Ser Gln Ser Leu Pro Ser Ile Ser Ala Ala Ile Gly Leu Leu
           20           25           30
Met Leu Phe Thr Asn Leu Phe Thr Cys Ser Lys Cys Phe Val Ile Ser
           35           40           45
Val Ala Lys Thr Met Ser Ile Ile Ala Trp Arg Ser Val Arg *
           50           55           60           62

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<210> 1984

<211> 232

<212> PRT

<213> Homo sapiens

<400> 1984

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Met Phe His Arg Cys Gly Ile Met Ala Leu Val Ala Ala Tyr Leu Asn
   1           5           10           15
Phe Val Ser Gln Met Ile Ala Val Pro Ala Phe Cys Gln His Val Ser
           20           25           30
Lys Val Ile Glu Ile Arg Thr Met Glu Ala Pro Tyr Phe Leu Pro Glu
           35           40           45
His Ile Phe Arg Asp Lys Cys Met Leu Pro Lys Ser Leu Glu Lys His
           50           55           60
Glu Lys Asp Leu Tyr Phe Leu Thr Asn Lys Ile Ala Glu Ser Leu Gly
           65           70           75           80
Gly Lys Trp Asp Ile Val Leu Arg Asp Cys Gln Phe Arg Met Leu Pro
           85           90           95
Gln Val Thr Asp Glu Asp Arg Leu Ser Arg Arg Lys Ser Ile Val Asp
           100          105          110
Thr Val Ser Ile Gln Val Asp Ile Leu Ser Asn Asn Val Pro Ser Asp

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		115					120					125				
Asp	Val	Val	Ser	Asn	Thr	Glu	Glu	Ile	Thr	Phe	Glu	Ala	Leu	Lys	Lys	
	130						135				140					
Ala	Ile	Asp	Thr	Ser	Gly	Met	Glu	Glu	Gln	Glu	Lys	Glu	Lys	Arg	Arg	
145					150					155						160
Leu	Val	Ile	Glu	Lys	Phe	Gln	Lys	Ala	Pro	Phe	Glu	Glu	Ile	Ala	Ala	
				165					170					175		
Gln	Cys	Glu	Ser	Lys	Ala	Asn	Leu	Leu	His	Asp	Arg	Leu	Ala	Gln	Ile	
		180						185					190			
Leu	Glu	Leu	Thr	Ile	Arg	Pro	Pro	Pro	Ser	Pro	Ser	Gly	Thr	Leu	Thr	
	195						200					205				
Ile	Thr	Ser	Gly	His	Ala	Gln	Tyr	Gln	Ser	Val	Pro	Val	Tyr	Glu	Met	
	210					215					220					
Lys	Phe	Pro	Asp	Leu	Cys	Val	Tyr									
225					230		232									

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<210> 1985
<211> 141
<212> PRT
<213> Homo sapiens
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<400> 1985															
Met	Asn	Leu	Ser	Leu	Pro	Phe	Leu	Cys	Leu	Phe	Leu	Leu	Ser	Phe	Ser
1				5					10					15	
Phe	Lys	Leu	Ala	Leu	Gln	Leu	Arg	Lys	Val	Ser	Leu	Leu	Ser	Leu	Arg
			20					25					30		
Leu	Trp	Gly	Gln	Ser	Ile	Cys	Cys	Leu	Glu	Lys	Glu	Gly	Asn	Gln	Asp
		35					40					45			
Ser	Ser	Gly	Thr	Gln	Met	Ser	Ser	Ser	Leu	Ala	Leu	Leu	Asn	Pro	Leu
	50					55					60				
Leu	His	Asn	Trp	Ser	Phe	Ile	Leu	Ala	Leu	Asn	Asp	Pro	Ala	Gly	His
65					70					75				80	
His	Gly	Phe	Leu	Phe	Leu	Leu	Val	Phe	Phe	Phe	Ser	Glu	Thr	Glu	Ser
				85					90					95	
His	Ser	Val	Thr	Gln	Ala	Gly	Val	Gln	Trp	Arg	Asp	Leu	Ser	Ser	Leu
			100					105					110		
Gln	Pro	Leu	Pro	Pro	Gly	Phe	Lys	Arg	Phe	Phe	Cys	Leu	Ser	Leu	Pro
		115					120					125			
Ser	Ser	Trp	Asp	Tyr	Arg	Cys	Ala	Thr	Thr	Pro	Gly	*			
	130					135					140				

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<210> 1986
<211> 292
<212> PRT
<213> Homo sapiens
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<400> 1986															
Met	Ile	Ser	Val	Ser	Ala	Met	Ala	Ile	Ala	Phe	Leu	Thr	Leu	Gly	Tyr
1				5					10					15	
Phe	Phe	Lys	Ile	Lys	Glu	Ile	Lys	Ser	Pro	Glu	Met	Ala	Glu	Asp	Trp
			20					25					30		
Asn	Thr	Phe	Leu	Leu	Arg	Phe	Asn	Asp	Leu	Asp	Leu	Cys	Val	Ser	Glu
		35					40					45			

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Asn Glu Thr Leu Lys His Leu Thr Asn Asp Thr Thr Thr Pro Glu Ser
  50          55          60
Thr Met Thr Ser Gly Gln Ala Arg Ala Ser Thr Gln Ser Pro Gln Ala
  65          70          75          80
Leu Glu Asp Ser Gly Pro Val Asn Ile Ser Val Ser Ile Thr Leu Thr
          85          90          95
Leu Asp Pro Leu Lys Pro Phe Gly Gly Tyr Ser Arg Asn Val Thr His
          100          105          110
Leu Tyr Ser Thr Ile Leu Gly His Gln Ile Gly Leu Ser Gly Arg Glu
          115          120          125
Ala His Glu Glu Ile Asn Ile Thr Phe Thr Leu Pro Thr Ala Trp Ser
          130          135          140
Ser Asp Asp Cys Ala Leu His Gly His Cys Glu Gln Val Val Phe Thr
          145          150          155          160
Ala Cys Met Thr Leu Thr Ala Ser Pro Gly Val Phe Pro Val Thr Val
          165          170          175
Gln Pro Pro His Cys Val Pro Asp Thr Tyr Ser Asn Ala Thr Leu Trp
          180          185          190
Tyr Lys Ile Phe Thr Thr Ala Arg Asp Ala Asn Thr Lys Tyr Ala Gln
          195          200          205
Asp Tyr Asn Pro Phe Trp Cys Tyr Lys Gly Ala Ile Gly Lys Val Tyr
          210          215          220
His Ala Leu Asn Pro Lys Leu Thr Val Ile Val Pro Asp Asp Asp Arg
          225          230          235          240
Ser Leu Ile Asn Leu His Leu Met His Thr Ser Tyr Phe Leu Phe Val
          245          250          255
Met Val Ile Thr Met Phe Cys Tyr Ala Val Ile Lys Gly Arg Pro Ser
          260          265          270
Lys Leu Arg Gln Ser Asn Pro Glu Phe Cys Pro Glu Lys Val Ala Leu
          275          280          285
Ala Glu Ala *
          290 291

```

```

<210> 1987
<211> 186
<212> PRT
<213> Homo sapiens

```

```

<400> 1987
Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser
  1          5          10          15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
          20          25          30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
          35          40          45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
          50          55          60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
          65          70          75          80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
          85          90          95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
          100          105          110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
          115          120          125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu

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      130              135              140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
145              150              155              160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
      165              170              175
Arg Ala Glu Ser Lys Leu Glu Ser Cys *
      180              185

```

<210> 1988
 <211> 47
 <212> PRT
 <213> Homo sapiens

```

      <400> 1988
Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr Val Leu Leu Ser
  1              5              10              15
Val Val Cys Phe Ser Phe Ser Tyr Gly Val Glu Pro Pro Lys Ser Trp
      20              25              30
Ser Gln Gly Lys Lys Gly Val Val Thr Gly Asp Ser Leu Leu *
      35              40              45  46

```

<210> 1989
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

      <400> 1989
Met Thr Leu Pro Cys Ala Ile Gln Met Phe Ile Ala Ala Val Gln Val
  1              5              10              15
Leu Ser Val Thr Tyr Leu Asp Leu Gln Pro His Leu Asn Glu Ser Leu
      20              25              30
Leu Thr Val Ser Leu Ile Phe Arg Phe Ile Phe Asn Leu Leu Phe Tyr
      35              40              45
Leu Gly Leu Thr Phe Ser Val Thr Lys *
      50              55              57

```

<210> 1990
 <211> 80
 <212> PRT
 <213> Homo sapiens

```

      <400> 1990
Met Ile Ser Phe Val Leu Val Lys Gly Leu Phe Leu Lys Cys Thr Phe
  1              5              10              15
His Phe Pro Leu Phe Asn Arg His Ile Met Ser Cys Ser Phe Leu Arg
      20              25              30
Ser Asp Phe Met His Gly Asp Ser Met Cys Phe Ser Ser Ser Tyr Met
      35              40              45
Leu Leu Asn Glu Ser Leu Tyr Ile Ser Phe His Thr Met Val Ile Lys
      50              55              60

```

Thr His Trp Ala Val Cys Gly Cys Gly Phe Ile Ser Glu Lys Leu *
 65 70 75 79

<210> 1991
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1991
 Met Val Arg Trp Lys Arg Glu Ile His Glu Leu Leu Trp Pro Leu Trp
 1 5 10 15
 Phe Cys Ser Trp Pro Arg Val Phe Glu Lys Gln Arg Ser Met Thr Asp
 20 25 30
 Phe Thr Cys Ser Ala Phe Ser Ala Phe Cys Leu Phe Cys Cys Pro *
 35 40 45 47

<210> 1992
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1992
 Met Leu Phe Ser Leu Gln Thr Ala Ile Val Tyr Cys Thr Ile Thr Val
 1 5 10 15
 Leu Cys His Arg Thr Leu Ile Phe Ser Ser Met His Lys Cys Ile Met
 20 25 30
 Leu Phe Pro Ile Ile His Ile Cys Ser Tyr Val Phe Phe Val Ile Tyr
 35 40 45
 Ser Phe *
 50

<210> 1993
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1993
 Met Trp Cys Ala Glu Met Leu His Ile Leu Phe Met Gly Leu Arg Val
 1 5 10 15
 Asn Leu Asn His Glu Thr Phe Leu Ile Ile Cys Cys Glu Ile Tyr Gln
 20 25 30
 Ala Trp Met Ile Ser Val Phe Leu Val Val Cys Cys Phe Phe Lys Glu
 35 40 45
 Val Ile Gln Val Pro Leu Leu Ser Cys Gln His Thr Lys Leu Leu Lys
 50 55 60
 Lys Leu Thr Ile Ser Phe Arg Ser Asn Ser Gln Pro Val Glu *
 65 70 75 78

<210> 1994
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1994
 Met Thr Ser Leu Gln Lys Arg Leu Leu Ser His Cys Met Gln Cys Thr
 1 5 10 15
 Met Leu Leu Gly Ile Cys Gly Gln Cys Lys Asp Asp Asp Ile Leu Ala
 20 25 30
 Ser Trp Val Ile Gln Glu Phe Thr Ala Met Gln Ser Arg Ser Arg Asn
 35 40 45
 Leu Gln Ser Arg
 50 52

<210> 1995
 <211> 164
 <212> PRT
 <213> Homo sapiens

<400> 1995
 Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1 5 10 15
 His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
 20 25 30
 Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
 35 40 45
 Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
 50 55 60
 Lys Glu Arg Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
 65 70 75 80
 Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
 85 90 95
 Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
 100 105 110
 Thr Ile Thr Tyr Ser Tyr Ala Gly Gly Gln Ser Thr His Gly Pro Gly
 115 120 125
 Leu Pro Ala Leu Leu Gln Ala Ser Pro Ser Pro Trp Cys Leu Cys Arg
 130 135 140
 Leu Ala Asp Val Leu Ala Arg Arg Gly Ser Met Pro Glu Pro Pro Leu
 145 150 155 160
 Cys Ile Cys *
 163

<210> 1996
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1996
 Met Trp Tyr Gly Val Phe Leu Trp Ala Leu Val Ser Ser Leu Phe Phe
 1 5 10 15

His Val Pro Ala Gly Leu Leu Ala Leu Phe Thr Leu Arg His His Lys
 20 25 30
 Tyr Gly Ala Ala Ile Ala Gly Val Tyr Arg Ala Ala Gly Lys Glu Met
 35 40 45
 Ile Pro Phe Glu Ala Leu Thr Leu Gly Thr Gly Gln Thr Phe Cys Val
 50 55 60
 Leu Val Val Ser Phe Leu Arg Ile Leu Ala Thr Leu *
 65 70 75 76

<210> 1997
 <211> 233
 <212> PRT
 <213> Homo sapiens

<400> 1997
 Met Gly Leu Pro Gly Leu Phe Cys Leu Ala Val Leu Ala Ala Ser Ser
 1 5 10 15
 Phe Ser Lys Ala Arg Glu Glu Glu Ile Thr Pro Val Val Ser Ile Ala
 20 25 30
 Tyr Lys Val Leu Glu Val Phe Pro Lys Gly Arg Trp Val Leu Ile Thr
 35 40 45
 Cys Cys Ala Pro Gln Pro Pro Pro Pro Ile Thr Tyr Ser Leu Cys Gly
 50 55 60
 Thr Lys Asn Ile Lys Val Ala Lys Lys Val Val Lys Thr His Glu Pro
 65 70 75 80
 Ala Ser Phe Asn Leu Asn Val Thr Leu Lys Ser Ser Pro Asp Leu Leu
 85 90 95
 Thr Tyr Phe Cys Arg Ala Ser Ser Thr Ser Gly Ala His Val Asp Ser
 100 105 110
 Ala Arg Leu Gln Met His Trp Glu Leu Trp Ser Arg Gln Arg Gly Arg
 115 120 125
 Pro Gln Gly Gly Asp Asp Leu Pro Gly Val Leu Gly Gln Pro Thr Tyr
 130 135 140
 His Gln Gln Pro Asp Arg Glu Gly Trp Ala Gly Pro Pro Ala Ala Glu
 145 150 155 160
 Thr Met Pro Gln Glu Ala Cys Gln Leu Ser Pro Ser Cys Arg Ala Arg
 165 170 175
 His Arg Thr Trp Phe Trp Cys Gln Ala Cys Lys Gln Arg Gln Cys Ser
 180 185 190
 Ser Thr Ala Pro Ser Gln Trp Leu Pro Gln Val Val Thr Gln Lys Met
 195 200 205
 Glu Asp Trp Gln Gly Pro Pro Gly Glu Pro His Pro Cys Leu Ala Ala
 210 215 220
 Leu Gln Glu His Pro Pro Ser Glu *
 225 230 232

<210> 1998
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1998
 Met Pro Ala Ile Val Val Phe Leu Phe Cys Phe Val Ile Ser Asp Gly

```

      1           5           10           15
Leu Thr Leu Ser Pro Arg Leu Asp Cys Thr Gly Leu Asn Leu Leu Ser
      20           25           30
Ser Ser Asp Arg Pro Thr Ser Ala Ser Pro Val Ala Gly Thr Ile Ala
      35           40           45
Val Gln His His Ala Trp Leu Ile Phe *
      50           55           57

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<210> 1999
 <211> 66
 <212> PRT
 <213> Homo sapiens

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      <400> 1999
Met Trp Leu Leu Val Thr Leu Ser Pro Arg Leu Leu Leu Ser Pro Ser
  1           5           10           15
His Phe Thr Leu Glu Gly Pro Gln Ile Asp Gln Ala His Ser Glu Leu
      20           25           30
Gln Val Leu Pro Leu Val Arg Pro Ser Ala Val Pro Leu Leu Gln Arg
      35           40           45
Ala Ser Trp Leu Arg Ser Arg Cys Leu His Leu Pro Lys Thr Val Leu
      50           55           60
Val *
      65

```

<210> 2000
 <211> 106
 <212> PRT
 <213> Homo sapiens

```

      <400> 2000
Met Gly Arg Cys Leu Ser Leu Gly Ile Leu Arg Gln Gly Leu Cys Cys
  1           5           10           15
Pro Cys Trp Ser Val Val Ala Glu Ser Gly Leu Thr Ala Ser Leu Gly
      20           25           30
Gly Ser Gly His Pro Ala Thr Ser Cys Ser Lys Glu Ala Gly Thr Thr
      35           40           45
Gly Glu Cys Met His His Thr Gln Leu Gly Ile Gln Thr Leu Arg Thr
      50           55           60
Tyr Tyr Met Pro Asp Ser Val Glu Leu Ser Glu Thr Met Ser Gly Cys
      65           70           75           80
Asn Trp Leu Pro Thr Gln Gln Thr Gln Ser Trp Ala Asn Ile Leu Arg
      85           90           95
Val Tyr Leu Thr Leu Lys Tyr Arg Phe Ser
      100           105 106

```

<210> 2001
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 2001
 Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
 1 5 10 15
 Ala Leu Pro Asn Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Val Arg
 20 25 30
 Gly Arg Gly Arg Leu Gly His Val Gly Ser Trp Gly Ser Ser Arg Pro
 35 40 45
 Gly Trp Arg Gly Leu Lys Glu Cys Cys Cys Gln Glu Leu Arg Gly Pro
 50 55 60
 Glu Arg Gly Val Tyr Ala Trp Arg Gly Gln Asp Leu Lys Gly Arg Arg
 65 70 75 80
 Tyr Leu Ala Glu Gly His Leu *
 85 87

<210> 2002
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 2002
 Met Arg Lys Leu Ile Ala Gly Leu Ile Phe Leu Lys Ile Trp Thr Cys
 1 5 10 15
 Thr Val Arg Thr Ser Thr Asp Leu Pro Gln Thr Glu Asp Cys Ser Gln
 20 25 30
 Cys Ile His Gln Val Thr Glu Ile Gly Gln Lys Val Ala Thr Val Leu
 35 40 45
 Leu Phe Tyr Gly Tyr Tyr Lys Tyr Thr Gly Thr Leu Lys Arg Thr Cys
 50 55 60
 Leu Tyr Asn Val Ile Leu Tyr Lys Val Tyr Ser Pro Gly Asn Asp Gln
 65 70 75 80
 Pro Asp Val Leu *
 84

<210> 2003
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 2003
 Met Ala Phe Ala Ser Val Leu Leu Ala Arg Ala Ser Pro Ala Val Val
 1 5 10 15
 Arg Ala Cys Leu Ser Arg Cys Ala Tyr Gly Val Gly Ser Asp Cys Pro
 20 25 30
 His Leu Val Thr Leu Ala Ala Leu Ile Leu Phe Trp Val *
 35 40 45

<210> 2004
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 2004

```

Met Trp Leu Phe Ile Ala Ser Lys Cys Ile Phe Leu Leu Ile Val Pro
 1           5           10           15
Asn Phe Ile Phe Val Phe Trp Arg Lys Val Phe Ser His Asp Arg Leu
           20           25           30
Asn Ile Ala Tyr Ser Phe Glu Leu Ser Ser Lys Tyr Ile Phe Ile Leu
           35           40           45
Phe Ile *
           50

```

<210> 2005

<211> 66

<212> PRT

<213> Homo sapiens

<400> 2005

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Met Val Glu Val Val Ser Leu Leu His Leu Tyr Ala Val Ala Cys Ala
 1           5           10           15
Arg Lys Gly Pro Phe Pro Asn Thr Lys Asp Leu Ser Gly Trp Thr Pro
           20           25           30
Ser Ser Gly Arg Glu Glu Leu Trp Lys Gly Lys Arg Ala Ala Ala Ala
           35           40           45
Thr Arg Asn Pro Leu Val Leu Thr Gly Leu Gly Ser Pro Ser Ala Arg
           50           55           60
Leu *
           65

```

<210> 2006

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2006

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Met Leu Val Pro Thr Phe Phe Leu Leu Ser Leu Leu Asp Gln Ser Cys
 1           5           10           15
Leu Ser Ile Cys Val Ser Gln Asp Tyr Phe Ser Ser Ile Val Val Gln
           20           25           30
Ile Arg Gln Ile Gly Ser Leu Cys Leu Asn Lys Ser Leu *
           35           40           45

```

<210> 2007

<211> 87

<212> PRT

<213> Homo sapiens

<400> 2007

```

Met Pro Thr Leu Ala Lys Trp Ile Leu Ser Leu Ser Met Thr Ser Thr
 1           5           10           15

```

```

Thr Trp Ser Pro Cys Ser Ser Met Ile Pro Leu Met Ala Ser Ser Thr
      20                25                30
Ala Pro Ser Arg Leu Arg Thr Gly Ser Leu Pro Ser Met Thr Ile Pro
      35                40                45
Ser Pro Ser Arg Arg Ser Glu Ile Pro Pro Lys Ser Ser Gly Val Met
      50                55                60
Pro Ala Leu Ile Ile Leu Trp Arg Pro Pro Ala Ser Leu Pro Ala Trp
      65                70                75                80
Arg Arg Leu Gly Ile Thr *
      85 86

```

<210> 2008
 <211> 58
 <212> PRT
 <213> Homo sapiens

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<400> 2008
Met Pro Ala Ile Val Val Phe Leu Phe Cys Phe Val Ile Ser Asp Gly
  1                5                10                15
Leu Thr Leu Ser Pro Arg Leu Asp Cys Thr Gly Leu Asn Leu Leu Ser
      20                25                30
Ser Ser Asp Arg Pro Thr Ser Ala Ser Pro Val Ala Gly Thr Ile Ala
      35                40                45
Val Gln His His Ala Trp Leu Ile Phe *
      50                55                57

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<210> 2009
 <211> 46
 <212> PRT
 <213> Homo sapiens

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<400> 2009
Met Leu Met Tyr Met Phe Tyr Val Leu Pro Phe Cys Gly Leu Ala Ala
  1                5                10                15
Tyr Ala Leu Thr Phe Pro Gly Cys Ser Trp Leu Pro Asp Trp Ala Leu
      20                25                30
Val Phe Ala Gly Gly Ile Gly Gln Ala Gln Phe Ser His Met
      35                40                45 46

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<210> 2010
 <211> 235
 <212> PRT
 <213> Homo sapiens

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<400> 2010
Met Glu Leu Gly Cys Trp Thr Gln Leu Gly Leu Thr Phe Leu Gln Leu
  1                5                10                15
Leu Leu Ile Ser Ser Leu Pro Arg Glu Tyr Thr Val Ile Asn Glu Ala
      20                25                30
Cys Pro Gly Ala Glu Trp Asn Ile Met Cys Arg Glu Cys Cys Glu Tyr

```

35	40	45
Asp Gln Ile Glu Cys Val Cys Pro Gly Lys Arg Glu Val Val Gly Tyr		
50	55	60
Thr Ile Pro Cys Cys Arg Asn Glu Glu Asn Glu Cys Asp Ser Cys Leu		
65	70	75
Ile His Pro Gly Cys Thr Ile Phe Glu Asn Cys Lys Ser Cys Arg Asn		
85	90	95
Gly Ser Trp Gly Gly Thr Leu Asp Asp Phe Tyr Val Lys Gly Phe Tyr		
100	105	110
Cys Ala Glu Cys Arg Ala Gly Trp Tyr Gly Gly Asp Cys Met Arg Cys		
115	120	125
Gly Gln Val Leu Arg Ala Pro Lys Gly Gln Ile Leu Leu Glu Ser Tyr		
130	135	140
Pro Leu Asn Ala His Cys Glu Trp Thr Ile His Ala Lys Pro Gly Phe		
145	150	155
Val Ile Gln Leu Arg Phe Val Met Leu Ser Leu Glu Phe Asp Tyr Met		
165	170	175
Cys Gln Tyr Asp Tyr Val Glu Gly Cys Asp Gly Asp Asn Arg Asp Gly		
180	185	190
His Ile Ile Lys Arg Val Cys Gly Asn Glu Arg Ala Ala Pro Ile His		
195	200	205
Asn Ile Arg Ile Leu Thr Ser Arg Pro Phe Pro Leu Pro Gly Leu Ser		
210	215	220
Lys Ile Leu Thr Gly Phe His Ala Pro Phe *		
225	230	234

<210> 2011
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 2011

Met Val Phe Ala Trp Gly Leu Ala Val Asn Lys Thr Ser Leu Val Pro	
1	5
Ile Phe Met Asp Leu Ser Leu Ala Gly Lys Ile Tyr Ile Lys Gln Arg	
20	25
Met Arg Met Glu Glu Asn Leu Leu Gly Asp Asn Glu Val Lys Glu Glu	
35	40
Lys Asp Gln Ala Val Lys Trp Gln Thr Leu Arg Trp *	
50	55
	60

<210> 2012
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 2012

Met Ile Arg Cys Gly Leu Ala Cys Glu Arg Cys Arg Trp Phe Leu Thr	
1	5
Leu Leu Leu Leu Ser Ala Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly	
20	25
Arg Gly Trp Leu Gln Ser Ser Asp Arg Val Gln Thr Ser Ser Leu Trp	
35	40
	45

```

Arg Arg Cys Phe Leu Pro Gln Gly Arg Arg Arg Arg Gln Arg Val Leu
  50                      55                      60
Arg Gly Arg Leu Pro Gln Pro His Gly Val Arg Val Gly Ser Ser Ser
  65                      70                      75                      80
Ala Ala Met Leu Phe Trp Gly Val Ser Ile Leu Glu Ile Cys Phe Ile
                      85                      90                      95
Leu Ser Phe Phe Val Leu Cys Val Pro Gln Ile
                100                      105          107

```

<210> 2013
 <211> 67
 <212> PRT
 <213> Homo sapiens

```

<400> 2013
Met Gly Val Val Leu Tyr Val Leu Val Cys Gly Ala Leu Pro Phe Asp
  1                      5                      10                      15
Gly Pro Thr Leu Pro Ile Leu Arg Gln Arg Val Leu Gly Arg Lys Ile
                20                      25                      30
Pro Asp Ser Val Phe His Val Arg Arg Leu Arg Ala Pro Tyr Pro Lys
                35                      40                      45
Asp Val Gly Pro Arg Pro Ile Gln Thr Ala Asn His Ser Pro Asn Gln
  50                      55                      60
Gly Ala *
  65  66

```

<210> 2014
 <211> 59
 <212> PRT
 <213> Homo sapiens

```

<400> 2014
Met Phe Leu Arg Phe Pro Leu Arg Phe Gly Ile Leu Ala Asp Lys Leu
  1                      5                      10                      15
Ile Leu Tyr Lys Ala Ser His Phe Thr Met Leu Ser Val Pro Gly Leu
                20                      25                      30
Tyr Leu Ser Thr Leu Leu Glu Gly Ile Phe Ile Leu Lys Lys Leu Ser
                35                      40                      45
Phe Met Arg Arg Met Gly Val His Ala Thr *
  50                      55                      58

```

<210> 2015
 <211> 55
 <212> PRT
 <213> Homo sapiens

```

<400> 2015
Met Val Arg Leu Gln Val Leu Val Leu Val Phe Arg Val Val Gly Ser
  1                      5                      10                      15
Gln Gln Met Leu Arg Gln Gly Ala Ala Gly Ala Arg Ser His Arg Val

```

		20						25				30					
Leu	Ala	Ser	Leu	His	Phe	Gln	His	Gly	Phe	Gly	Thr	Phe	His	Thr	Pro		
		35					40					45					
Ala	Arg	Ala	Gly	Gly	Ser	Glu											
		50				55											

<210> 2016
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 2016																	
Met	Ser	Leu	Arg	Phe	Cys	Phe	Cys	Leu	Pro	Val	Cys	Pro	Ser	Leu	Pro		
1				5					10					15			
Ile	Ser	Val	Phe	His	Val	Phe	Leu	Ser	Val	Ser	Asp	His	Pro	Val	Ser		
			20					25					30				
Leu	Cys	Leu	Thr	Val	Ser	Gly	His	Glu	Met	Ser	Val	Ile	Val	Ala	Arg		
		35					40					45					
Phe	Thr	Leu	Ser	Leu	Tyr	Leu	Phe	Pro	Leu	Arg	Ser	Gly	Ile	Ser	*		
		50				55					60			63			

<210> 2017
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 2017																	
Met	Ile	Leu	Leu	Leu	Ser	Thr	Phe	Phe	Cys	Cys	Phe	Arg	Glu	Asp	Ser		
1				5					10					15			
Cys	Phe	Tyr	Lys	Lys	Tyr	Val	Gly	Leu	Val	Gln	Trp	Leu	Met	Pro	Val		
			20					25					30				
Ile	Pro	Ala	Leu	Trp	Glu	Ala	Lys	Val	Gly	Gly	Ser	Leu	Glu	Val	Trp		
		35					40					45					
Ser	Ser	Arg	Pro	Ala	Trp	Pro	Ile	Arg	*								
		50				55		57									

<210> 2018
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 2018																	
Met	Leu	His	Ile	Ser	Ser	Ala	Phe	His	Cys	Tyr	Ala	Phe	Leu	Pro	Leu		
1				5					10					15			
Phe	Ala	Leu	Thr	His	Asn	Phe	Ile	Phe	Leu	Phe	Tyr	Leu	Leu	Ser	Leu		
			20					25					30				
Ser	Pro	Lys	Leu	Glu	Cys	Lys	Phe	Gln	Glu	Gly	Arg	Asp	Phe	Tyr	Leu		
		35					40					45					
Phe	Phe	Phe	Val	Phe	Pro	Ile	Phe	Trp	His	Val	Trp	His	Arg	Lys	Gly		
		50				55					60						

Ile *
65

PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rule 13ter.1(c) and 39)

Applicant's or agent's file reference 21272-018	IMPORTANT DECLARATION	Date of mailing (day/month/year) 8 7 JUN 2001
International application No. PCT/US01/02687	International filing date (day/month/year) 25 January 2001 (25.01.2001)	(Earliest) Priority date (day/month/year) 25 January 2000 (25.01.2000)
International Patent Classification (IPC) or both national classification and IPC IPC(7): C12P 21/06 and US Cl.: 435/69.1		
Applicant HYSEQ, INC.		

This International Searching Authority hereby declares, according to Article 17(2)(a), that no international search report will be established on the international application for the reasons indicated below.

1. ☐ The subject matter of the international application relates to:
 - a. ☐ scientific theories.
 - b. ☐ mathematical theories
 - c. ☐ plant varieties.
 - d. ☐ animal varieties.
 - e. ☐ essential biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
 - f. ☐ schemes, rules or methods of doing business.
 - g. ☐ schemes, rules or methods of performing purely mental acts.
 - h. ☐ schemes, rules or methods of playing games.
 - i. ☐ methods for treatment of the human body by surgery or therapy.
 - j. ☐ methods for treatment of the animal body by surgery or therapy.
 - k. ☐ diagnostic methods practised on the human or animal body.
 - l. ☐ mere presentations of information.
 - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art.
2. ☒ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:

☐ the description
☒ the claims
☐ the drawings
3. ☒ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:

☐ the written form has not been furnished or does not comply with the standard.
☒ the computer readable form has not been furnished or does not comply with the standard.
4. Further comments:

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Authorized officer

Young J. Kim

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